

Eastern Illinois University



GENERAL
CATALOG
1977 & 1978

The provisions of this catalog are not to be regarded as irrevocable contractual commitments between the University and student. The University reserves the right to change any provision or requirement contained herein at any time within the student's term of residence.

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

Eastern Illinois University is an equal opportunity/affirmative action employer and administers its educational employment programs in conformance with federal and state laws prohibiting discrimination based upon sex, race, age and other prescribed categories, including Title IX. Inquiries concerning this policy may be directed to the appropriate campus admitting or employing unit or the Affirmative Action Office.

EASTERN ILLINOIS UNIVERSITY

CATALOG

APRIL, 1977



78th YEAR

ACADEMIC RECORD 1977-79 TERMS

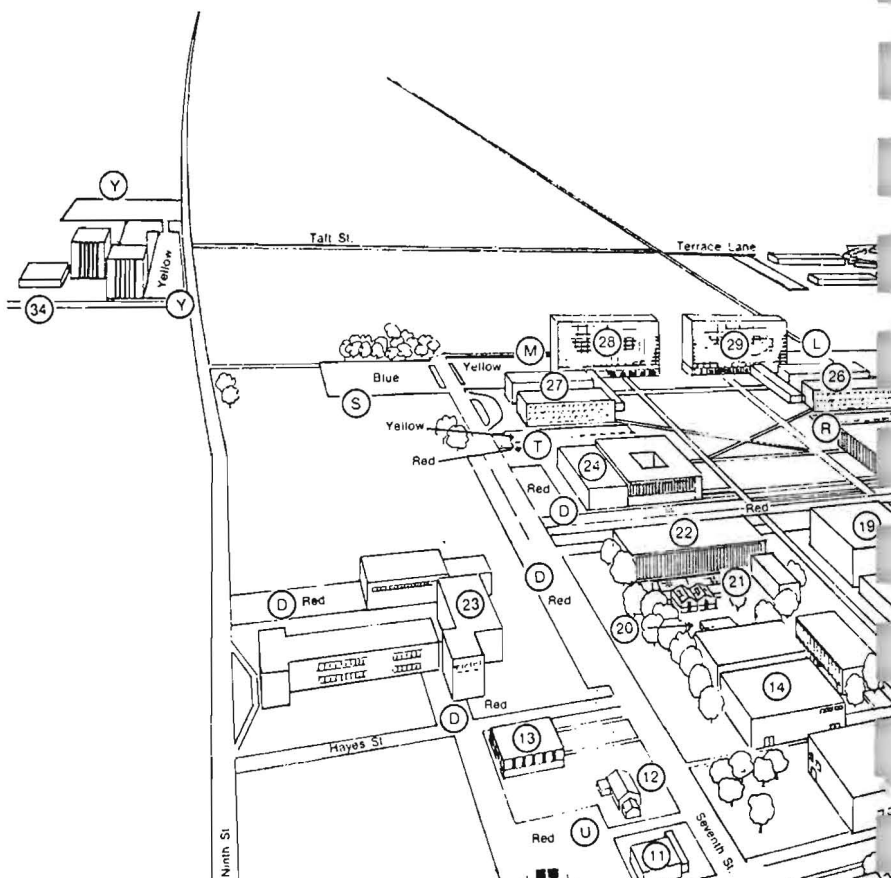
ANNOUNCEMENTS

FOR

SUMMERS 1977 & 1978

AND

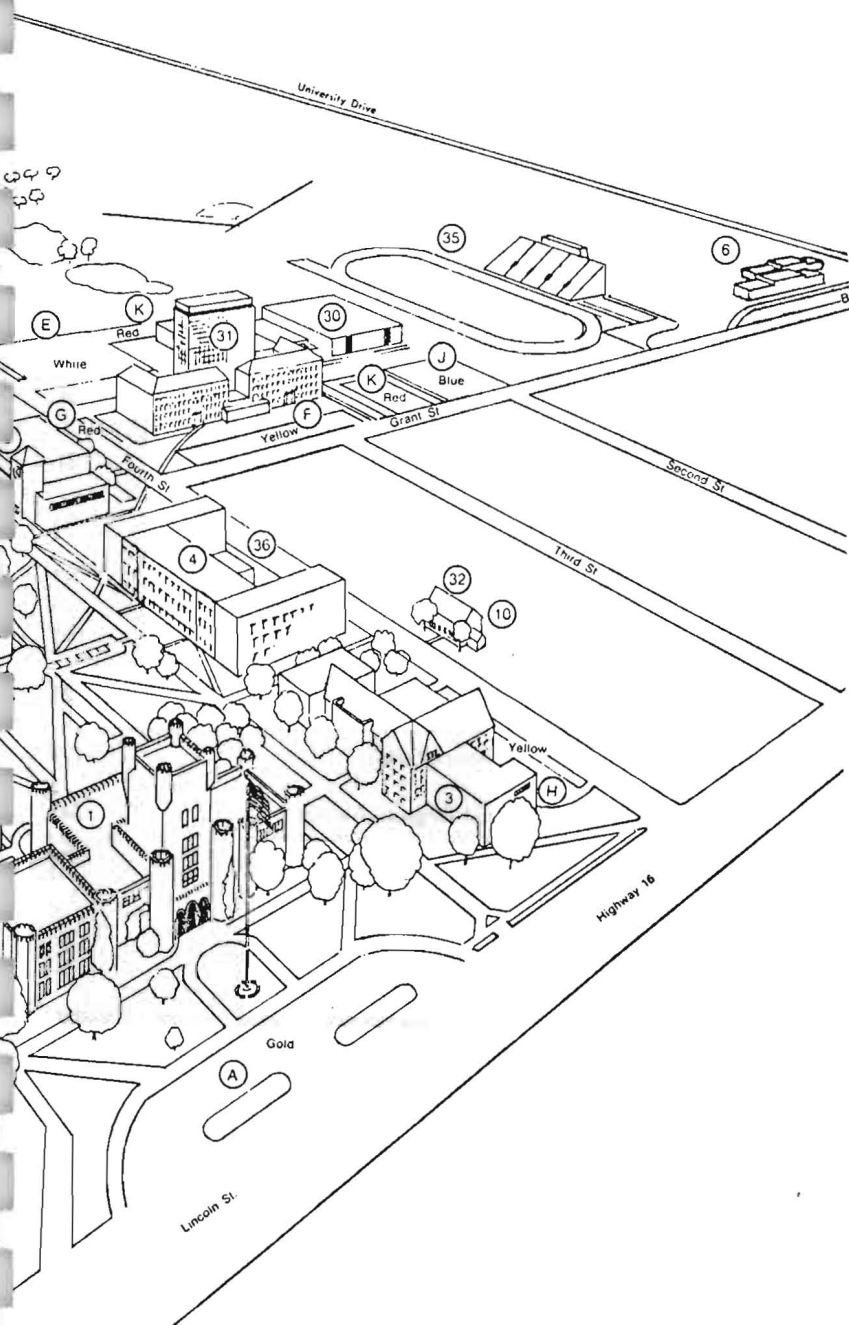
1977-79 TERMS



1. Old Main — Admissions
(Livingston C. Lord Administration Building)
2. Blair Hall
3. Pemberton Hall
4. Science Building
5. Student Services Building
6. Physical Plant Services Building
7. Power Plant
8. McAfee Gymnasium
9. University Union
10. Non-Academic Personnel
11. Telephone and Security Building
12. Buzzard House
13. Clinical Services Building
14. Quincy V. Doudna Fine Arts Center
15. Ford Hall
16. McKinney Hall
17. Weller Hall
18. Gregg Triad
19. Booth Library
20. Life Science Vivarium
21. Greenhouse
22. Life Science Building
23. Robert G. Buzzard Education Building
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 (O'Brien Field)
36. Phipps Lecture Hall

Parking Areas Indicated by
Letter and Shading

Ninth St.



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This catalog includes information concerning admission, enrollment, fees, housing, course offerings, etc., as it pertains to the academic year 1977-78.

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

1977 - 78

SUMMER TERM 1977

Early Graduate Registration	June 4
Central Registration	June 6, 7
Classes Begin	June 8
Last Day to Submit Add, Pass-Fail or Audit Requests	June 10
Last Day for Partial Refund upon Withdrawal from University	June 13
Last Day to Apply for Graduation	June 13
Last Day for Course Withdrawal Without Grade	June 13 (5 p.m.)
Begin Automatic W upon Course Withdrawal	June 14
Independence Day Observance — No Classes	July 4
Mid-Term	July 5
Last Day for Automatic W upon Course Withdrawal	July 11 (5 p.m.)
Begin W or WF upon Course Withdrawal	July 12
Last Day to Withdraw from Courses or University	July 26 (5 p.m.)
Commencement	July 31
Final Examinations	August 1 thru 3
Term Closes	August 4

FALL SEMESTER 1977

Early Graduate Registration	August 20
Central Registration	August 22, 23
Classes Begin	August 24
Last Day to Submit Add, Pass-Fail or Audit Requests	August 29
Last Day for Partial Refund upon Withdrawal from University	September 2
Last Day to Apply for Graduation	September 2
Last Day for Course Withdrawal Without Grade	September 2 (5 p.m.)
Begin Automatic W upon Course Withdrawal	September 3

Labor Day Observance — No Classes	September 5
Mid-Term	October 17
Last Day for Automatic W upon Course Withdrawal . . .	October 31 (5 p.m.)
Begin W or WF upon Course Withdrawal	November 1
Thanksgiving Recess	November 23 thru 27
Last Day to Withdraw from Courses or University . . .	December 2 (5 p.m.)
Study Day — No Classes	December 14
Final Examinations	December 15, 16, 19, 20, 21
Semester Closes	December 22

SPRING SEMESTER 1978

Early Graduate Registration	January 14
King's Birthday Observance — No Classes	January 16
Central Registration	January 17, 18
Classes Begin	January 19
Last Day to Submit Add, Pass-Fail or Audit Requests . .	January 24
Last Day for Partial Refund upon Withdrawal from University	January 27
Last Day to Apply for Graduation	January 27
Last Day for Course Withdrawal Without Grade	January 27 (5 p.m.)
Begin Automatic W upon Course Withdrawal	January 28
Lincoln's Birthday Observance — No Classes	February 13
Mid-Term	March 13
Spring Recess	March 23 thru April 2
Last Day for Automatic W upon Course Withdrawal . . .	April 3 (5 p.m.)
Begin W or WF upon Course Withdrawal	April 4
Last Day to Withdraw from Courses or University . . .	May 4 (5 p.m.)
Final Examinations	May 15 thru 19
Commencement	May 20
Semester Closes	May 20

SUMMER TERM 1978

Central Registration	June 12, 13
Classes Begin	June 14
Last Day to Submit Add, Pass-Fail or Audit Requests . .	June 16

Last Day for Partial Refund upon Withdrawal from University	June 19
Last Day to Apply for Graduation	June 19
Last Day for Course Withdrawal Without Grade	June 19 (5 p.m.)
Begin Automatic W upon Course Withdrawal	June 20
Independence Day Observance — No Classes	July 3, 4
Mid-Term	July 11
Last Day for Automatic W upon Course Withdrawal	July 17 (5 p.m.)
Begin W or WF upon Course Withdrawal	July 18
Last Day to Withdraw from Courses or University	August 1 (5 p.m.)
Commencement	August 6
Final Examinations	August 7 thru 9
Term Closes	August 10

FALL SEMESTER 1978 (TENTATIVE)

Early Graduate Registration	August 26
Central Registration	August 28, 29
Classes Begin	August 30
Labor Day Observance — No Classes	September 4
Last Day to Submit Add, Pass-Fail or Audit Requests	September 5
Last Day for Partial Refund upon Withdrawal from University	September 8
Last Day to Apply for Graduation	September 8
Last Day for Course Withdrawal Without Grade	September 8 (5 p.m.)
Begin Automatic W upon Course Withdrawal	September 9
Mid-Term	October 20
Last Day for Automatic W upon Course Withdrawal	November 6 (5 p.m.)
Begin W or WF upon Course Withdrawal	November 7
Thanksgiving Recess	November 22 thru 26
Last Day to Withdraw from Courses or University	December 7
Final Examinations	December 18 thru 22
Semester Closes	December 23

SPRING SEMESTER 1979 (TENTATIVE)

Early Graduate Registration	January 13
King's Birthday Observance — No Classes	January 15
Central Registration	January 16, 17
Classes Begin	January 18
Last Day to Submit Add, Pass-Fail or Audit Requests . .	January 23
Last Day for Partial Refund upon Withdrawal from University	January 26
Last Day to Apply for Graduation	January 26
Last Day for Course Withdrawal Without Grade	January 26 (5 p.m.)
Begin Automatic W upon Course Withdrawal	January 27
Lincoln's Birthday Observance — No Classes	February 12
Mid-Term	March 12
Spring Recess	March 24 thru April 1
Last Day for Automatic W upon Course Withdrawal . . .	April 2 (5 p.m.)
Begin W or WF upon Course Withdrawal	April 3
Easter Recess	April 13 thru 16
Last Day to Withdraw from Courses or University . . .	May 3 (5 p.m.)
Final Examinations	May 14 thru 18
Commencement	May 19
Semester Closes	May 19

SUMMER TERM 1979 (TENTATIVE)

Central Registration	June 11, 12
Classes Begin	June 13
Last Day to Submit Add, Pass-Fail or Audit Requests . .	June 15
Last Day for Partial Refund upon Withdrawal from University	June 18
Last Day to Apply for Graduation	June 18
Last Day for Course Withdrawal Without Grade	June 18 (5 p.m.)
Begin Automatic W upon Course Withdrawal	June 19
Independence Day Observance — No Classes	July 4

Mid-Term July 10

Last Day for Automatic W upon Course Withdrawal . . . July 16 (5 p.m.)

Begin W or WF upon Course Withdrawal July 17

Last Day to Withdraw from Courses or University . . . July 31 (5 p.m.)

Commencement August 5

Final Examinations August 6 thru 8

Term Closes August 9

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES

APPOINTED MEMBERS

Dominick J. Bufalino , Chicago	1974-77
Edmund A. Godula , Chicago	1976-77
Peter Lardner , Rock Island	1971-77
James J. Cicero , Chicago	1973-79
Leon Davis , Chicago	1973-79
Mrs. Warren Relph , Peru	1973-79
Daniel Alvarez , Chicago	1975-81
Harold Fay , East Alton ¹	1975-81
Mrs. Fremont Kaufman , LaSalle	1975-81

OFFICERS

Peter Lardner, Chairman
Leon Davis, Vice Chairman
Donald E. Walters, Executive Officer

STUDENT MEMBERS

Henry L. Barton III, Governors State University
Kirk Dillard, Western Illinois University
Michael D. Marine, Eastern Illinois University
James Payette, Northeastern Illinois University
Steve Powenski, Chicago State University

¹Died February 8, 1977.

EASTERN ILLINOIS UNIVERSITY

CHARLESTON

CHIEF ADMINISTRATIVE OFFICERS

(Date of joining staff in parentheses)

PRESIDENT

Daniel E. Marvin, Jr., Ph.D., Virginia Polytechnic Institute (1977)

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

(Acting President, September, 1976 — February, 1977)

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)

Wayne S. Owens, Ed.D., Indiana University (1969)

(Acting Vice President for Administrative Affairs, September, 1976 — February, 1977)



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 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. The B.S. and M.S. degrees in speech pathology and audiology are accredited by the American Speech and Hearing Association.

Eastern Illinois University's teacher education programs received recognition by the Illinois Office of Education in 1967. Programs appearing in this catalog are approved by the Illinois Office of Education with the exception of programs in Earth Science and Music-Theatre. The University is currently seeking approval of these two programs.

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 wooded tracts near Charleston, 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, Home Economics, and Industrial Arts and Technology.

Buzzard House: Counseling and Testing.

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

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

Clinical Services Building: Speech Pathology and Audiology, Health Service, and Reading, Speech, and Hearing Clinics.

Florence McAfee Gymnasium: Physical Education, Intercollegiate Athletics, and Registration.

Francis G. Blair Hall: Business Education, and Accountancy, Data Processing, and Finance.

Life Science Building: Botany and Zoology.

Livingston C. Lord Administration Building (Old Main): Administrative offices, Admissions, Academic Advisement, Mathematics, Records, and Paul Sargent Art Gallery.

Martin Luther King, Jr., University Union: Arrangements Office, Student Activities and Organizations, and special features: ballrooms, bookstore, bowling alleys, cafeteria, lounges, conference rooms, snack shops, and student government offices.

Mary J. Booth Library: Main Library, Music Room, Self-Study Materials Center, and Audio-Visual Center.

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

Quincy V. Doudna Fine Arts Center: Fine Arts, Art, Music, and Theatre Arts.

Robert G. Buzzard Education Building: Education, School Service Personnel, Special Projects, and portion of Home Economics.

Student Services Building: Affirmative Action, Computer Services, Duplicating Services, Financial Aids, Foreign Student Advisement, Housing, Journalism, Placement, Residence Hall Food Services, Student Personnel Services, Veterans' Services, Eastern News, and Warbler.

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

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 School of Fine Arts, the Graduate School, the School of Health, Physical Education and Recreation, the School of Home Economics, and the School of Technology. 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 consists of two semesters and an eight-week summer 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.

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.

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 are required to live in University residence halls except as follows:

1. Students with 60 or more semester hours of credit. Students who acquire 60 semester hours of credit during the school year will be permitted to select their place of residence at the end of the semester in which they attain the required hours, OR
2. Students who have lived in the residence halls of Eastern Illinois University for four (4) semesters (two summer sessions equal one semester) OR
3. Students who are married, OR
4. Students who are 21 years of age or older. A student who reaches the age of 21 during the semester may select his or her place of residence at the end of the semester in which he or she reaches the age requirement, OR
5. Students who live at home with their parents within a fifty (50) mile radius of Charleston, Illinois, OR

6. Students who are veterans with one or more years of active service, OR
7. Students enrolled for the first time at Eastern Illinois University prior to Summer Term 1972.

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. Professionally educated counselors are available in each of the residence halls to aid in the residents' adjustment to group living and the University. Rooms are primarily for double occupancy although a few single and triple rooms are available, as are the four- and six-person 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
East	50	Taylor South	297
Ford	150	Thomas	438
Lawson	480	Weller	150
Lincoln	194		

An application for residence hall space and board (20 meals per week) should be requested from Student Housing Office. (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 housing application and deposit. More specific information regarding the University Residence Halls will be mailed upon request, by the Student Housing Office.

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 \$103.50 per month for a one-bedroom apartment and \$93.50 per month for an efficiency apartment. Additional information may be requested from the Student Housing Office.

GENERAL SERVICES

COUNSELING

The Counseling Center is staffed by professional counselors and counseling psychologists who assist students with 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 and the spouses of 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 while enrolled as a full-time student. 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 for all three terms of the calendar year. Students attending spring semester who wish summer coverage and plan to not enroll summer term, must apply for this insurance before the close of the spring semester.

An insurance brochure describing details of the coverage is available in the Office of Financial Aids. Basically, the group policy provides for a maximum of \$10,000 for hospital, surgical, and major medical expenses incurred within fifty-two weeks of the date of first medical treatment of the injury or sickness as provided for under the provisions of the contract. Benefits payable for a mental or nervous condition shall not exceed \$5,000.

Prior to the tenth day of the term, students and/or parents (for students under 21), who can produce evidence of equal or better coverage, may make application for a refund of the insurance fee by completing a form available in the Office of Financial Aids. This provision is subject to change with a new insurance contract.

Information concerning the insurance may be obtained in the Office of Financial Aids.

MEDICAL

The University Health Service is located in the Clinical Services Building.

Outpatient medical services are available Monday-Friday, 7:30 a.m. to 4:00 p.m. A nurse is also available until 11:00 p.m. daily during the week and from 10:00 a.m. until 5:00 p.m. on Saturdays. During these hours a physician is on call for emergencies. The Charleston Ambulance Service can be contacted in an emergency for transportation of severe injuries or illnesses. Faculty and staff may be treated at the University Health Service only for emergencies which happen during working hours.

Services provided by the Health Service are covered by student activity fees. For further information concerning the Health Service, refer to the University Health Service brochure and the insurance brochure provided by the Financial Aids Office.

CAREER PLANNING AND PLACEMENT

Career planning should begin for students from the first year at Eastern Illinois University. Appointments for career planning can be made by any student. Contact the Placement Center.

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. Minimal service fees are charged

current graduates who elect to register for placement. The fee for education placement is \$2.00 and for non-education placement is \$1.00.

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. Off-campus candidates seeking positions in business, industry, and government may receive weekly bulletin listings by paying the \$2 bulletin fee.

TESTING

Testing services are available to University students without charge. However, an at-cost fee for the scoring of selected tests may be assigned. Specific information is available from any of the staff in the Counseling and Testing Center.

Area schools may arrange for the scoring of standardized tests at a nominal charge, and 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 services 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 p.m. 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 5:00 p.m. 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

Booth Library is the general library of the University and contains a book stock of over 400,000 cataloged volumes besides governmental documents, microtexts, maps, music scores, pictures and pamphlets chosen to support the educational effort of the University. All books in the library are on open shelves except those that are rare.

In the central area of the first (main) floor are located the Circulation Department and the General Card Catalog. The Reference Department also is located near the center of the first 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 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 second 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. A collection of books for children of all ages is available on the first floor for the students who study children's literature.

Self-Study Materials Center (SMC) as a public service unit of Booth Library, located in the northside 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 and video tapes, etc., available to students and faculty members for various class assignments. Over 10,000 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, as is the Read and Relax Room serviced by the SMC. This room houses the latest best sellers and popular paperback books along with a quadraphonic sound system for student listening.

READING IMPROVEMENT

Each term the Reading Center offers a credit course, General Studies 1000 — Reading and Study Improvement for those who recognize a need for guidance and practice with essential reading and study 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. 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 Robert G. Buzzard Building, 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 in 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, Performing and Visual Arts, Debate, and Model United Nations.

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), 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 Apportionment Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

MARTIN LUTHER KING, JR., UNIVERSITY UNION

The Martin Luther King, Jr., University Union houses a cafeteria, snack bar, Rathskeller, game room, bowling alley, bookstore, ballrooms, lounges, check cashing facilities, lobby shop, vending lounge, T.V. rooms, Student Government Offices, duplicating center, meeting rooms, and offices for the Director, Assistant Director, Director of the Union Food Services, Director of Arrangements and the Director of Activities and Organizations.

The Union sponsors a variety of programs, including several recreation tournaments in

bowling, billiards, bridge, chess, and table tennis. The Union and the University Boards collaborate on coffeehouses and travel programs.

Organizations wishing to schedule any University facility, 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.

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-Communication 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 and for citizens of 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 University 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, 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, swimming, tennis, badminton. 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: Christian Science Organization, Campus Crusade for Christ, Christian Collegiate Fellowship, Fellowship of Christian Athletes, Inter-Varsity Christian Fellowship, Newman Community, United Campus Ministry, Bible Study, and ECKANKAR.

RESIDENCE HALL GOVERNMENT

The Hall Council in each residence hall is composed of representatives from each corridor, elected hall officers and committee chairpersons dependent on the constitution of the hall. The Council is the governing body of the hall and is the channel of communication to the Residence Hall Association and/or the Student Housing Office. Residents are encouraged to take an active role in the government of the hall. Specific procedures regarding residence hall governments are outlined in the Residence Hall Handbook.

The Residence Hall Association (RHA) has as its purpose to deal with matters of mutual interest and to coordinate the joint activities of the member halls. The RHA consists of two or three representatives from each hall dependent upon the size of the hall. The RHA has the responsibility of reviewing and making recommendations relative to University Housing Policies and Procedures for the betterment of the residence halls of Eastern Illinois University. Suggestions for the betterment of a hall are made to the RHA representative.

SPECIAL GROUPS

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

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
Kappa Alpha Psi	Theta Gamma Chapter
Lambda Chi Alpha	Colony
Phi Sigma Epsilon	Delta Chapter
Pi Kappa Alpha	Zeta Gamma Chapter
Sigma Chi	Eta Mu Chapter
Sigma Pi	Beta Gamma Chapter
Sigma Tau Gamma	Alpha Alpha Chapter
Tau Kappa Epsilon	Gamma Omega Chapter

OTHER SOCIAL FRATERNITIES

Alpha Phi Alpha	Theta Nu Chapter
Omega Psi Phi	Tau Theta Chapter
Phi Beta Sigma	Delta Chi Chapter
Groove Phi Groove	

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	Beta Iota Chapter
Alpha Phi	Zeta Alpha Chapter
Alpha Sigma Alpha	Gamma Omega Chapter
Delta Zeta	Gamma Nu Chapter
Kappa Delta	Delta Beta Chapter
Sigma Kappa	Gamma Mu Chapter
Sigma Sigma Sigma	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 Township, 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 Assistant Dean, Student Personnel Services, 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 University Police Department.

PARKING PERMITS

Application for a parking permit should be made at the University Police Department. A committee of faculty and students review all requests and make assignments based upon such factors as distance, employment, and physical disability. The current charges for parking permits are \$15.00, \$10.00, and \$2.00. These fees are subject to change on an annual 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, with the exception of residence hall parking lots which will be enforced 24 hours a day, 7 days a week. Other regulations will be issued periodically by the University Police Department.

TRAFFIC PENALTIES

- 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 University Police Department. Registration decals are available at the University Police Department.

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 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

To be considered an Illinois resident for purposes of fee assessment, a student (or his/her parent(s) or legal guardian in the case of a student under eighteen years of age) must have been a bona fide resident of the State for a period of at least six consecutive months immediately preceding the beginning of any term for which he or she enrolls at the University. Voter registration, filing of income tax returns, proper license and registration for driving or ownership of a vehicle, and other such transactions may verify intent of residence in the State and establish a date of record from which the six month period began.

Inquiries concerning resident fee eligibility should be made to the Dean, Student Academic Services.

FEES 1977-78**SEMESTER FEES**

Part-Time Student: A student enrolled for less than 12 semester hours of work shall pay the following fees per semester hour: Part-time students are not eligible for health and accident insurance. A part-time student may

	<i>Illinois Resident Undergraduate</i>	<i>Illinois Resident Graduate</i>	<i>Out-of-State Undergraduate</i>	<i>Out-of-State Graduate</i>
<i>Fee: (Per Semester Hour)</i>				
Tuition (Registration Fee)	\$21.25	\$22.50	\$63.75	\$67.50
*Programs and Services	6.50	6.50	6.50	6.50
Total	\$27.75	\$29.00	\$70.25	\$74.00

Full-Time Student: A student enrolled for 12 through 17 semester hours of work shall pay the following fees:

	<i>Illinois Resident Undergraduate</i>	<i>Illinois Resident Graduate</i>	<i>Out-of-State Undergraduate</i>	<i>Out-of-State Graduate</i>
<i>Fee: (12-17 Semester Hours)</i>				
Tuition (Registration Fee)	\$255.00	\$270.00	\$765.00	\$810.00
*Programs and Services	96.00	96.00	96.00	96.00
Total	\$351.00	\$366.00	\$861.00	\$906.00

Overload Student: A student enrolled for more than 17 semester hours of work shall pay the following fees:

	<i>Tuition Fees</i>			<i>Totals</i>	
<i>Semester Hours</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>	<i>Programs & Services</i>	<i>Illinois Resident</i>	<i>Out-of-State Student</i>
18	\$276.25	\$ 828.75	\$96.00	\$372.25	\$ 924.75
19	297.50	892.50	96.00	393.50	988.50
20	318.75	956.25	96.00	414.75	1052.25
21	340.00	1020.00	96.00	436.00	1116.00
22	361.25	1083.75	96.00	454.25	1179.75

Note: No refund of tuition fee will be made to a student who drops from overload status to full-time status.

	<i>Full-Time Fee:</i>	<i>Part-Time Per Sem. Hr.:</i>
<i>*Breakdown of Programs and Services Fees:</i>		
Activity Fee	\$24.50	\$1.50
Bond Revenue Building Fee	33.50	2.80
Textbook Rental Fee	14.00	1.20
Health and Accident Insurance	12.00	—
Grants-in-Aid Fee	9.00	.75
Minority Student Fee	3.00	.25

SUMMER FEES

Part-Time Student: A student enrolled for less than 8 semester hours of work shall pay the following fees per semester hour: Part-time students are not eligible for health and accident insurance.

<i>Fee: (Per Semester Hour)</i>	<i>Illinois Resident Undergraduate</i>	<i>Illinois Resident Graduate</i>	<i>Out-of-State Undergraduate</i>	<i>Out-of-State Graduate</i>
Tuition (Registration Fee)	\$21.25	\$22.50	\$63.75	\$67.50
*Programs and Services	6.50	6.50	6.50	6.50
Total	\$27.75	\$29.00	\$70.25	\$74.00

Full-Time Student: A student enrolled in the summer term for 8 or more semester hours of work shall pay the following fees:

<i>Fee:</i>				
Tuition (Registration Fee)	\$170.00	\$180.00	\$510.00	\$540.00
*Programs and Services	58.00	58.00	58.00	58.00
Total	\$228.00	\$238.00	\$568.00	\$598.00

- Notes:**
- 1) *Undergraduate Students.* Total charge for the pre-session and the regular session will be no more than \$228 for Illinois residents (\$568 for out-of-state students) when taken in combination.
 - 2) *Graduate Students.* Total charge for the pre-session and the regular session will be no more than \$238 for Illinois residents (\$598 for Out-of-State students) when taken in combination.

**Breakdown of Programs and Services Fees:*

Activity Fee
Bond Revenue Building Fee
Textbook Rental Fee
Health and Accident Insurance
Grants-in-Aid Fee
Minority Student Fee

Full-Time Fee:

\$14.50
20.95
8.75
6.35
5.60
1.85

Part-Time Per Sem. Hr.:

1.50
2.80
1.20
\$ —
.75
.25

CONTINUING EDUCATION

Continuing Education fees are \$24 per semester hour (subject to change) 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. This fee is non-refundable.

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. Paid fee card must be presented whenever I.D. card is validated or re-validated. A fee of \$2 is charged for a colored Poloroid student-photo I.D. Full-time students' I.D. cards are validated at no charge for all subsequent semesters of attendance upon presentation of the paid fee card for each semester of enrollment. A lost I.D. card should be reported immediately to the I.D.

office, Student Personnel Services, and application made for a new card. The cost for a replacement card is \$2.00.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the non-refundable 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 5 p.m. 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 Bookstore. The cost per lock is \$2.45.

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

P.E. Towel and Supply Fee. \$3 per semester; \$1.50 during summer term.

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, and in accordance with the terms of the residence hall contract.

Room and Board Charges: Charges for board and room in the University residence halls are: \$635 for the fall semester, and \$605 for the spring semester, if paid in full. There is an additional \$4 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 will result in the forfeiture of the advance payment or if not paid, a charge of that amount (presently \$218), 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 date for the succeeding semester which is 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 should be requested through the residence hall counselor or the Student Housing Office. 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 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 Programs and Services 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.

BOARD AND ROOM

Refund of the advance payment for any term will be made upon receipt of a written request addressed to the Director, Student Housing, and postmarked *on or before the advance payment date for that specific term*. Cancellations after the advance payment date will result in the forfeiture of the advance payment (currently \$218) and the Housing Security Deposit

(currently \$25), unless the residence halls are full to capacity as of the tenth day of the term. (Late cancellation without advance payment will result in a charge for that amount.) 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 from Eastern Illinois University 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 (at least one parent, step-parent, or court-appointed guardian must reside in Illinois unless the applicant qualifies to file the application as a self-supporting student in which case the applicant must have resided in Illinois in some capacity other than a college student for six consecutive months prior to September 1, 1977).
- c. Be a person of good moral character.
- d. Be eligible to enroll as an undergraduate student in an ISSC approved college, university, or hospital school of nursing as of September 1, 1977.
- e. Not have received a baccalaureate degree; nor completed 150 semester hours or 225 quarter hours of college level coursework; nor received 10 semesters or 15 quarters of award payments, prior to academic year 1977-78.
- f. Demonstrate financial need as determined by the Commission;
- g. Submit the required application form by the October 1, 1977 deadline date, or before funds are exhausted, whichever occurs first.

Monetary awards range from \$120 per academic year to a maximum of \$1,350 (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, 102 Wilmot Road, Deerfield, Illinois 60015. A college choice must be indicated at the time of application, but this choice may be changed at any time by notifying ISSC.

Military Scholarship. See Section on Veterans Benefits.

General Assembly Scholarship. Each member of the General Assembly may award annually two four-year scholarships, one for attendance at the University of Illinois and the other for attendance at any other state-supported university designated by the member. The scholarship may be awarded to one or more persons as one, two, or four-year scholarships. 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 Illinois Office of Education.

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 fee) is waived for students receiving the awards. The awards go to students with talent in art, athletics, debate, music, student publications, and student leadership. Nominations for the awards are made by department chairmen.

Grants-in-Aid. Eastern offers in excess of 200 grants-in-aid annually to students who show promise or demonstrate a talent in selected fields. Among these are art, athletics, debate, student publications, music, and student leadership. Approved by the Board of Governors of State Colleges and Universities, the talent scholarship program is financed through a student grants-in-aid fee. Application should be made to the appropriate department.

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. Application should be made to the Foreign Student Advisor.

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. Only the registration fee is waived for students 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.

National Merit Scholarship. Established by the University in 1974 in cooperation with the National Merit Scholarship Corporation. One or more merit awards will go annually to merit scholars selected from among finalists in National Merit Scholarship competition who designate Eastern Illinois University as their college of first choice.

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.

Gayle Hutton Adkins Award. Established in memory of Gayle Hutton Adkins, an alumnus of Eastern. The award is made annually to a junior or senior demonstrating outstanding personal character and high scholarship in the pre-medical program.

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.

Ruth Carman Scholarship. Established in memory of Ruth Carman, former professor of foreign languages at Eastern from 1914 to 1953. The award will be presented annually to an outstanding student in foreign languages.

Charles H. and Dorothee 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, Student Personnel 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, former 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 Technology 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 University's chief student personnel officer.

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, Jr."

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 Scholarship. Established by the Alumni Association of the University in memory of Livingston C. Lord, who served as President, 1899-1933. This 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.

Hans C. Olsen Scholarship. Established in 1974 in memory of Dr. Hans C. Olsen, a member of the Eastern faculty from 1938 to 1960. The award will go annually to a full-time graduate student who demonstrates outstanding potential for educational leadership.

President's Award. Established in 1973, the award goes annually to one or more freshmen 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 contribution of service, guidance, and leadership of the late 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 1906 Eastern graduate. The award is made to an art major or minor who has completed the second semester of the sophomore year.

Martin O. Schahrer Scholarship. Established in memory of Martin O. Schahrer, an Eastern student who died for his country in World War I. The award goes in alternate years to an outstanding student in chemistry and botany.

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 the late 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 the late 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.

H. F. Thut Award. Established in memory of Hiram F. Thut, former professor of botany at Eastern from 1932 to 1969. The award is presented annually to an outstanding student in botany.

Dr. William B. Tym Scholarship. Established in memory of William B. Tym, whose practice of dentistry in Charleston spanned a period of 57 years. The award goes annually to a student enrolled in the pre-dentistry program.

Errett Warner Athletic Award. Established by Errett Warner, Eastern alumnus and distinguished educator, to encourage and reward academic and athletic excellence by student athletes.

Errett and Mazie Warner History Award. Established by Errett Warner, distinguished Eastern alumnus, to reward excellence in the study of history. The award goes annually to a junior or senior majoring in history.

Robert A. Warner Scholarship. Established through the Department of Music in honor of Robert A. Warner, former professor of music at Eastern. The award goes annually to a student of music who demonstrates talent on a stringed instrument.

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.

George S. Westcott Band Award. Established by George S. Westcott, emeritus professor of music and director of bands at Eastern to honor outstanding instrumentalists who have performed three years in the University Band.

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 percent during enrollment. At termination of enrollment the rate increases to six per cent. The fund is administered by the Associate Dean, Student Personnel Services.

Eastern Veterans' Association Loan Fund. Established by the Eastern Illinois University Veterans Association. To be eligible, one must be a full-time student, U.S. citizen, sophomore and above, or twenty-one years of age, and be in good academic standing. Maximum loan is fifty dollars for a period of thirty days. No interest will be charged if repaid within the thirty-day period allotted. Application forms are available in the Office of Financial Aids.

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 the late Elizabeth K. Lawson, former Dean of Women. The amount of a loan is limited to \$100 for a 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 the late 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 demonstrate financial need, 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.

Parents' Club Emergency Loan Fund. Established by the Eastern Illinois University Parents' Club. To be eligible, one must be a full-time student in good academic standing. No interest will be charged and maximum period of loan will be thirty days. Application forms may be obtained in the Office of Financial Aids.

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

University Loan Fund. To be eligible for a University loan a student must be a U.S. citizen and 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 Mazie 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 and U.S. citizens. Information and application forms are available in the Office of Financial Aids.

VETERANS BENEFITS

G.I. BILL (CHAPTER 34 US CODE)

Eastern Illinois University is an approved institution for Veterans Administration benefit programs. Those individuals who have served more than 181 days of continuous active duty are eligible to receive the VA's *Educational Assistance Allowance*, currently \$292/mo. for the single, full-time student, \$347/mo. for the married vet, with additional allowances for other dependents. A veteran with 18 months of continuous active duty is entitled to receive this allowance for up to 45 months of fulltime enrollment. You are allowed 10 years from separation from active duty to complete this program.

DEPENDENTS EDUCATIONAL ASSISTANCE (CHAPTER 35 US CODE)

Also available is the *Dependent Educational Assistance*, for widows, widowers, and children of veterans who died as a result of a service-connected condition or veterans who carry a permanent and total disability. Payment under this program is the same as the rate for a single vet, or \$292/mo. for a total of 45 months.

VOCATIONAL REHABILITATION (CHAPTER 31 US CODE)

Vocational Rehabilitation, is a comprehensive educational program administered by the VA, open to veterans with a compensable, service connected disability. A Vocational Rehabilitation Specialist is available to assist in this program. Though the monthly payments are slightly less than that of the regular GI Bill, all tuition and fees as well as necessary tools or supplies, are also provided.

In addition to the programs above, an extra allowance may be included if you or your parents are receiving a VA Pension check regularly.

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 120 points of scholarship eligibility must be used within a twelve year period. The number of points used per semester are prorated in accordance with the number of hours carried.

Military Scholarships must be registered with the Office of Veterans Services to be valid for use. Service personnel, eligible to use the scholarship must furnish satisfactory documentation of Illinois citizenship.

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 a year 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 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 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, federal offices, social agencies, 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, 129 N. 15th Street, Mattoon, Illinois 61938, or the student's home area DVR office.

STUDENT 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, while enrolled as a full-time student.

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 300 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: Office of Admissions, Eastern Illinois University, Charleston, Illinois, 61920. Graduate applicants should write to the Graduate School.

Acceptance of applications and granting of admissions are subject to completion of the application process (see Procedures section). Completed applications should 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.

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

Housing applications must be sent to the Housing Office (see Section III, 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.

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.

Students who have completed the junior year in high school, who have 14 acceptable units, who rank in the upper one-fourth of their high school class, and who have the recommendation of their principal may enter the university as regular freshmen at the beginning of any semester or summer term.

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.

ACTIVE DUTY ENLISTEES

Eastern Illinois University will admit a person when he (or she) enters the service, assign an advisor to the person, and work with the person to complete courses toward a stated degree while in service. Then Eastern will agree to take the person as a student once he is discharged. The person would then complete his (or her) degree on Eastern Illinois University's campus.

SPECIAL STUDENTS

High School Students: Students who have completed the junior year in a recognized high school, who have twelve acceptable 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 eight semester hours during the summer term preceding their senior year in high school and not more than four semester hours in a regular semester during their senior year in high school. 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 an acceptable score 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:
Office of Admissions
Eastern Illinois University
Charleston, Illinois 61920
2. Complete the application form and give it to the high school principal or guidance counselor who will complete the form and return it to the University *after the sixth semester rank is available*. The final high school transcript is required when available.
3. Complete the health and medical form and forward it directly to the Office of Admissions.
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 the Office of Admissions.
5. Each student applying for admission must submit scores from the ACT or SAT. Complete information concerning the ACT or SAT 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 an acceptable score 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. 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, Graduate Degree Programs.

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 should 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 should 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 submitted 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 should 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 should submit a Course Request Card for 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

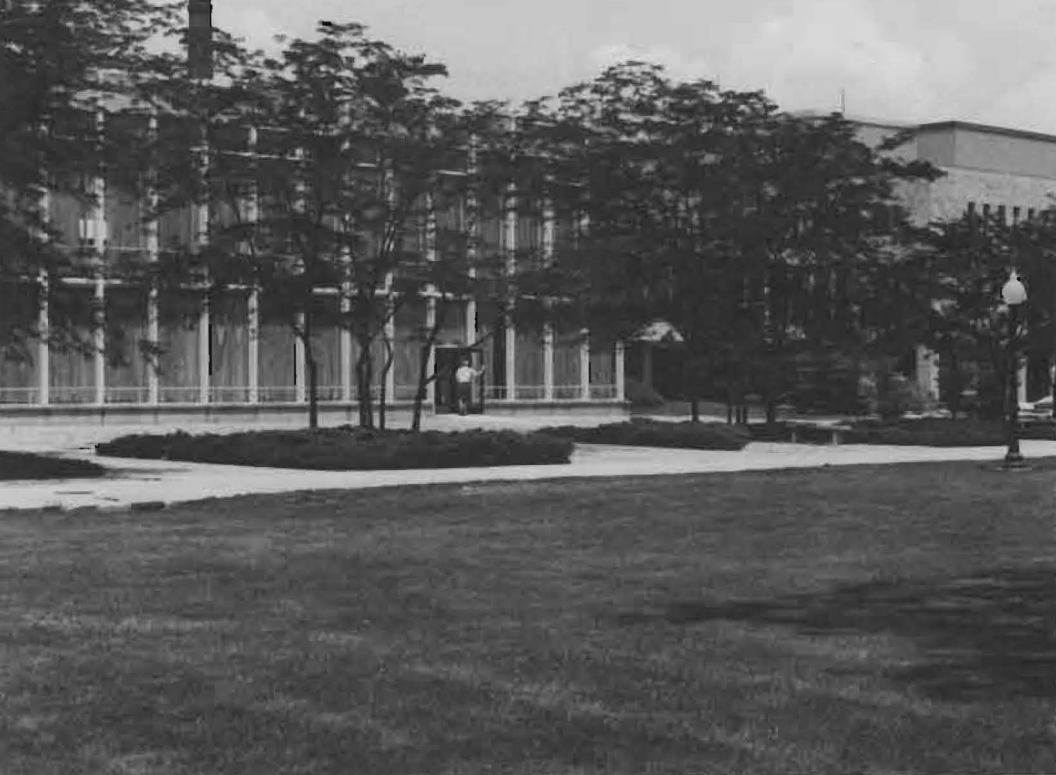
After the application for readmission has been approved, the student is assigned to his major department or his former advisor through the Registration Office.

STUDENTS CHANGING MAJORS

Students who wish to change majors or degrees should apply through the Office of The Dean, Student Academic Services, after consultation with their advisors. It is important that changes be made *before pre-enrollment*.

NEW STUDENT ORIENTATION

Prior to enrollment, activities are scheduled to acquaint 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 a 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. Students transferring from Illinois public community colleges will have met the English, Health Education, and Speech requirements if they have taken at least five semester hours in English, two semester hours in Health Education, and two semester hours in Speech Communication.

Generally, students transferring from Illinois public community colleges with an A.A. or A.S. (not Applied Science) degree will enter in good standing as a junior with all general education requirements met. Because major requirements vary this does not necessarily mean that the student will graduate with an additional 60 semester hour of academic work.

The University will accept in transfer all appropriate hours earned in accredited institutions. Regardless of the number of hours accepted, however, a student must earn a minimum of 56 semester hours in a senior institution or institutions, 42 of which must be earned at Eastern Illinois University, in order to qualify for a baccalaureate degree. See *Requirements for the Bachelor's Degree* for additional information.

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. Members and former members of the armed services who have 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 ordinary 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 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, or if the credit does not duplicate credit already earned.

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 may be granted toward satisfying graduation requirements.

CLEP General Examinations.

Social Science — History Test — 6 semester hours

Natural Science Test — 6 semester hours

Humanities Test — 6 semester hours

Mathematics Test — 6 semester hours

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

CLEP Subject Examinations. Departments may grant credit for CLEP Subject Examinations if the attained scaled score is at or above the level recommended by the Council on College Level Examinations as set forth in the CLEP Subject Examinations Model Policy.

A student may request the Educational Testing Service to submit his scores, and the essay portions of the examinations if required, to the Registrar for evaluation.

Afro-American History (essay required)	Macro Economics
American Government (essay required)	Micro Economics
American History (essay required)	College English (essay required)
Biology	Geology (essay required)
Introductory Business Law (essay required)	History of American Education
Introduction to Business Management (essay required)	Human Growth and Development
Calculus with Analytic Geometry	Analysis and Interpretation of Literature (essay required)
General Chemistry	Introductory Marketing (essay required)
Elementary Computer Programming — Fortran IV (essay required)	Money and Banking
Computers and Data Processing (essay required)	General Psychology
	Introductory Sociology (essay required)
	Statistics
	Western Civilization (essay required)

Students who enroll at Eastern Illinois University with transfer credits, CLEP scores, and/or Advanced Placement scores may be given credit only in those areas not duplicating 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 offer the student an opportunity to obtain credit for experience relevant to certain courses, for individual study of subjects, or for study of relevant courses in non-accredited institutions.

Credit by proficiency examination in a course is equivalent to credit earned by enrollment in that course for purposes of satisfying a major requirement, a minor requirement, a general education requirement, the advanced credit requirement, and the total hours for a baccalaureate degree requirement. It does not apply toward any residence requirement, and is not included in determining honors, probation, GPA, etc.

Proficiency examinations for credit in undergraduate courses offered by the University are given in accordance with the following rules:

1. The student who desires such credit must first report to the Records Office and complete an application.
2. The applicant must be in good academic standing at Eastern Illinois University.
3. Generally the applicant must be enrolled as a student in the University at the time the application is filed.
4. The applicant may apply only once for a proficiency examination in a given course in a given subject.
5. An applicant is not eligible for credit by proficiency examination in a given course in a given subject if any one or more of the following conditions is satisfied:
 - a. The course is a physical education service course.
 - b. The course is a foreign language course numbered below 3000 and the applicant is a native speaker of the language.
 - c. There is an entry on the applicant's permanent record for that course.
 - d. The course substantially duplicates one or more courses accepted for college entrance or for transfer of credit.
 - e. The applicant has credit in one or more courses in that subject more advanced than the given course.
 - f. The applicant is currently enrolled in the course or in a course more advanced than the given course and more than one month of the semester has passed.

6. The Registrar checks the application, if appropriate, certifies the eligibility of the applicant for the requested examination, and returns the application to the applicant. If ineligible, he returns the application with an indication of the reason for the applicant's ineligibility.
7. An eligible applicant must obtain the approval of the appropriate department chairman before the examination is taken. Generally such approval is contingent upon presentation of evidence of independent study, relevant experience, or relevant study in non-accredited institutions.
8. If the course is ordinarily taught by more than one member of the faculty, a committee of at least two members is appointed by the department chairman to give the examination and assign the grade. The examination must be comprehensive, and for approval of proficiency credit the grade must be C or higher.
9. If the grade is C or higher, the application form is completed and forwarded through the department chairman and dean to the Registrar.
10. Credit by proficiency examination is entered on the permanent record with "Cr" as the grade entry.
11. The non-refundable fee for a proficiency examination is \$3.00/semester hour.

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 he is in residence. If the plan is accomplished, the instructor submits a Removal of Incomplete Form indicating the appropriate grade. Records Office will cause the Incomplete to be changed to an F grade unless the instructor has submitted a time extension in writing. 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 instructor no later than the end of the first six weeks 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 GRADING PERIOD

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

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.

ACADEMIC 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 grading period (semester or summer term), his grade-point average for that grading period is 0.00 and his cumulative grade-point average is below 2.00;
OR
- 2) at the end of his first two grading periods, his cumulative grade-point average is less

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 $26 \div 13 = 2.00$.

than 1.00; OR

- 3) at the end of two successive grading periods on academic probation his cumulative grade-point average is less than 2.00 and his last grading period grade-point average is less than 2.20.

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

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 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 load during a semester is 15-17 semester hours.

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 an eight-week summer term is 6-9 semester hours.

Overload. A student, except a first term beginning freshman, may take as many as 21 semester hours during a semester or 10 semester hours during an eight-week summer term providing he is in good academic standing.

An undergraduate student may enroll for more than 21 semester hours of undergraduate work in a semester if his cumulative GPA is at least 3.50 and he has permission of the dean of the college or school administering his major. No student may enroll for more than 21 semester hours until he has established a GPA at Eastern Illinois University.

A student teacher may enroll for as many as 12 semester hours during a summer term providing the entire 12 semester hours are in Teaching Practicum.

A student may enroll for as many as 12 semester hours in a summer internship course providing the internship is a full-time experience of 10 weeks or more.

GRADUATE STUDENT

A graduate student may take no more than 16 semester hours during a semester and nine semester hours during a summer term, except during his final term before graduation when he may take 18 semester hours during a semester or 10 semester hours during a summer term. This is exclusive of workshops or short courses held prior to or following either the summer term or a regular semester.

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 Offices of 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; Offices of 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 Offices of 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

To encourage students to participate in areas of learning outside their major academic interests and to stimulate intellectual curiosity, the University has the pass-fail system. The following rules apply:

Eligible Students. Sophomores, juniors, seniors.

Procedure. Pass-fail option request cards will be accepted by the Office of Registration during a period beginning with the first central registration day of a semester or term and ending with the last day on which add requests may be submitted. No change either to or from pass-fail option will be permitted after the last day to submit add requests.

Limits. A maximum of twelve semester hours of undergraduate course work may be taken pass-fail with no more than one course in any single subject title and no more than one course in any single semester or term. For purposes of this regulation, the summer pre-session and the regular summer session are considered a single term and only one course, therefore, may be taken pass-fail in the combined sessions.

Courses offered on pass-fail basis only as well as one physical education service course per semester or term are not counted against the above limits. Furthermore, courses offered on pass-fail basis only are exempt from the following exclusions.

Courses Excluded.

- a. English 1001, English 1002, Health Education 1200 and Speech Communication 1310 may not be taken pass-fail.

- b. Professional education courses including departmental methods courses required in teacher certification programs may not be taken pass-fail.
- c. Any course which qualifies as being applicable toward fulfillment of a given major or in the determination of the grade-point average in a given major, as specified in the major requirement description in the catalog, may not be taken pass-fail by a student in that major irrespective of whether such student wishes to apply the course to the major or is taking it as an elective.

WITHDRAWAL FROM A COURSE

- 1. 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.
 - 2. After the first ten calendar days following the first class day, but prior to the 70th calendar day of the Semester, a student may withdraw from a course (or from the University) with a grade of W.
 - 3. A student who withdraws on or after the 70th 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 10 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.
 - 4. If mitigating circumstances exist, the Dean, Student Academic Services, may advise the recording of a grade of W instead of a grade of WF.
 - 5. 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 Offices of 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 Offices of 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 Offices of 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 Offices of 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 baccalaureate degrees are given in Section VII. To achieve a baccalaureate degree, the student must:

1. Complete at least 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.
2. 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.
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 History 2010 or 4020 or Political Science (1103 and 2603), or 2011.
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 student will be awarded all degrees for which he has completed requirements, except that the Board of Governors B.A. degree may not be awarded simultaneously with another degree or awarded to a student who already holds a bachelor's degree. Two degrees may be awarded simultaneously if the student makes arrangements with the appropriate certifying deans. 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 and spring semesters 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 or summer term in which commencement is held. Students may be excused from the commencement exercises by the Faculty Marshal.

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

Elementary and Junior High School Majors	80
School of 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 semester or 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; specialists'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 no later than the Friday immediately preceding the first day of registration for the next succeeding semester or term following the semester or term of graduation. 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 for all work taken at Eastern Illinois University, 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 56 semester hours at Eastern Illinois University, with at least 40 semester hours in graded courses, excluding Pass-Fail.

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 only on 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 need and enrollment will justify the service. The Off-Campus Center concept, with a sequence of course offerings planned over a one-two year period, has become quite 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 appropriate test) as those enrolling in comparable courses taught on campus. 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 — WAIVERS

Scholarships and fee waivers must be validated by the appropriate office prior to use in off-campus courses. To determine appropriate office, please contact the Director, Continuing Education, Eastern Illinois University.

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.

Workshops or short courses on specific subjects may be offered by any school or department for graduate or undergraduate credit; credit may vary from one to three semester hours.

Undergraduate numbers:

(Dept) 3997 Short Course	(1-3 sh)
(Dept) 3998 Workshop	(1-3 sh)
(Dept) 3999 Workshop	(1-3 sh)

Graduate/Undergraduate numbers:

(Dept) 4997 Short Course	(1-3 sh)
(Dept) 4998 Workshop	(1-3 sh)
(Dept) 4999 Workshop	(1-3 sh)

COMMUNITY EDUCATION COURSES

A number of non-credit courses are offered on campus throughout the year as a community service. Specific requests will be considered, and when interest and enrollment justify, a course may then be scheduled. Please direct all requests to the Office of Continuing Education, Eastern Illinois University, Charleston, Illinois 61920.



VII. UNDERGRADUATE DEGREES

RESPONSIBILITY OF STUDENTS

The requirements for each baccalaureate degree, and the majors (with options, if applicable), 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.

Degrees Bachelor of Arts

Majors
Economics
English
French
German
History
Journalism
Mathematics

Philosophy
Political Science
Psychology
Sociology
Spanish
Speech Communication

Bachelor of Science

Afro-American Studies
Botany
Chemistry
Computational
Mathematics
Earth Science
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. for certification in one discipline (or area), a strong major in that discipline. Such majors are described under the appropriate disciplines.
2. for certification in more than one discipline, a major in one discipline and one or more minors or additional majors in other disciplines. Such majors and minors are described under the appropriate disciplines.

Degrees

Bachelor of Arts

Majors

Economics
English
French
German
History
Mathematics
Political Science

Psychology
Social Science
Sociology
Spanish
Speech-Communication

Bachelor of Science

Botany
Chemistry
Earth Science¹
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

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.

Computer Management
Energy Management
Finance
Management
Marketing

No minor is required.

SCHOOL OF EDUCATION

Degree

Bachelor of Science in Education

Majors

Business Education
Elementary Education
Elementary-Special Education
Junior High School Education

TEACHING MINORS

Accounting

General Business

Secretarial

Typewriting and Bookkeeping

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 71), 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:

Teaching Certificate

Standard Elementary Certificate,
Grades K through 9

Standard High School Certificate
Grades 6 through 12

Standard Special Certificate,
Grades K through 12

Degree

B.S.Ed.

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

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

The curriculum for elementary school teaching leads to the B.S. in Education degree with a standard elementary certificate. (See requirements listed on page 86.)

The curriculum in elementary — special education leads to the B.S. in Education degree with a standard elementary certificate and a standard special certificate. (See requirements on page 89.)

The curriculum for junior high school teaching leads to the B.S. in Education degree with a standard high school certificate. (See requirements on page 98.)

High school or secondary teaching candidates who wish to prepare for teaching may be awarded the B.A., or B.S., degree with teaching certification from the College of Arts and Sciences, the B.S. degree with teaching certification from the School of Health, Physical Education and Recreation, the B.S. degree with teaching certification from the School of Home Economics, the B.S. degree with teaching certification from the School of Technology, and the B.A., or B.Mus., degree with teaching certification from the School of Fine Arts. 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, Career Occupation, Chemistry, Earth Science, Economics, English, French, German, Spanish, Geography, Health Education, History, Mathematics, Physical Education, Physics, Political Science, Psychology, Social Science, Sociology, Speech-Communication, Technology Education, Theatre Arts, and Zoology. Disciplines which offer programs for high school teachers with a standard special certificate are: Art, Home Economics, Music, and Physical Education. 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.

Courses Required: All persons following programs in the preceding paragraph must complete

either the following certification requirements or the Alternate Secondary Education Program listed below.

Psychology 2310	3
Educational Psychology 3320 or Secondary Education 3320	5
Departmental Methods 3400*	3
Educational Foundation 4450	3
Student Teaching 4304 and 4308	12

*Exceptions to this course number are in art, business education and music.

ALTERNATE SECONDARY EDUCATION PROGRAM

This is an alternate program leading to a secondary certificate in all academic areas listed above. It is designed for those who prefer a non-traditional, competency-based approach emphasizing early experiences in public high school classrooms, self-paced instruction, and a Pass/Fail grading system.

Courses Required: The following courses are required of all persons to complete the certification requirements:

Psychology 2310	3
Secondary Education 3000	3
Secondary Education 3100	3
Secondary Education 4000*	14
Departmental Methods 3400	3

Further information concerning the program can be obtained from the Office of the Dean, School of Education.

*Includes student teaching field experiences.

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 School of Education. Dates of these meetings are posted outside Room 126N, Buzzard 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.
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 unless enrolled in the program at Chanute Air Force Base with the goal of pursuing a teaching program. In that case, they must (1) be seeking certification in a vocational-technical field; (2) have earned at least 11 semester hours from Eastern Illinois University; and have an Eastern Illinois University cumulative GPA of at least 2.15; and (3) be recommended by their major department.

*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 for low 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.

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, School of Education, at the scheduled admission's meeting.

TEACHING PRACTICUM (STUDENT TEACHING 4301, 4302, 4304, 4308)

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.

To be admitted to the teaching practicum the student must attain 90 semester hours or more toward graduation and must have complied with all regulations and qualifications relative to admittance to teacher education. At least three semester hours of the required teaching practicum must be taken through Eastern Illinois University to qualify 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 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. The same amount of student teaching shall be required of post-baccalaureate students as is required of undergraduate majors.

A student enrolled in a high school curriculum is required to earn 12 semester hours in student

teaching, with at least four semester hours, and preferably eight semester hours, of student teaching in their major field.

Except for students who complete a program in elementary education — special education or a program in elementary or junior high school teaching, the maximum amount of student teaching credit that may count toward the 120 semester hours required for a bachelor's degree is 12 semester hours.

1. Depending upon the level of concentration:

a. **Elementary School Curriculum.** Elementary Education: The student must have completed Elementary Education 3280; Nursery-Kindergarten Program: The student must have completed Elementary Education 3280 and 4260; Educable Mentally Handicapped Program: The student must have completed Elementary Education 3280, Special Education 3300, 4770, 4960; Learning Disabilities Program: The student must have completed Elementary Education 3280, Special Education 3350, 4770, 4990; Socially-Emotionally Maladjusted Program: The student must have completed Elementary Education 3280, Special Education 3660, 4770, 4880.

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 Educational Psychology 3320 (except students in the speech pathology and audiology curriculum who take Elementary Education 2320 and any required departmental methods courses for the subjects to be assigned them). Transfer students who have had a course in human growth and development, approved by the School of Education, may take Secondary Education 4330 in lieu of Educational Psychology 3320.

d. **Alternate 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 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. Meetings are scheduled each year 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 Theatre Arts
Bachelor of Music	Music

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 Recreation

No minor is required.

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 Physical Education (K-12) Physical Education (6-12)

TEACHING MINORS

Health Education
Physical Education

Safety and Driver Education

SCHOOL OF HOME ECONOMICS

PROFESSIONAL PROGRAM

Degree

Bachelor of Science

Major

Home Economics

No minor is required.

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.

Degree

Bachelor of Science

Major

Home Economics Education

TEACHING MINOR

Home Economics Education

SCHOOL OF TECHNOLOGY

PROFESSIONAL PROGRAM

Degree

Bachelor of Science

Major

Industrial Technology

No minor is required.

TEACHER PREPARATION PROGRAM

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

Degree

Bachelor of Science

Major

Technology Education

TEACHING MINOR

Technology 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 minor in other than teacher certification programs may be obtained by successfully completing a minimum of 18 semester hours in a discrete discipline or in an interdisciplinary minor which has been approved by the university. 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 appropriate dean, the minor will be entered on the student's permanent record.

GENERAL EDUCATION REQUIREMENTS

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	9
Social Studies ⁴	9
Mathematics-Science ⁵	9
Total	38 sem. hrs.

¹ Beginning freshmen who have a standard score of 26 or higher on the English section of the ACT examination or a scaled score of 700 or higher on the English achievement section of the CEEB test may receive credit by exemption for English 1001 upon application through the Advisement Center.

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 nine semester hours in more than one of the humanities subjects.

⁴ Must be taken in more than one of the social studies subjects. *Note for Students Desiring Teacher Certification:* At least six semester hours of this requirement must be from disciplines other than psychology. At least one three-semester-hour course in U.S. history of U.S. government must be taken. Students are reminded that Psychology 2310 is a prerequisite for courses taught in the School of Education.

⁵ Must be taken in more than one of the mathematics-science subjects.

COURSES ALLOWED FOR THE DISTRIBUTION REQUIREMENTS IN GENERAL EDUCATION

Notes:

Humanities subject majors are: Art, English, French, German, Music, Philosophy, Spanish, Speech-Communication, Theatre Arts.

Mathematics/Science subject majors are: Botany, Chemistry, Earth Science, Geology, Mathematics (including the Computational Mathematics major), Physics, Zoology.

Social Studies subject majors are: Economics, Geography, History, Political Science, Psychology, Sociology.

HUMANITIES COURSES WHICH APPLY

The requirement is nine semester hours from more than one subject or eight semester hours in a single foreign language. If majoring in a humanities subject, only six semester hours from one or more of other humanities subjects (including foreign language) must be taken. Courses which apply toward the requirement are as follows:

Art: 1400, 1650, 2300, 2340, 2651, 2652, 2653.

Arts & Sciences: 2100 (1 sem. hr.), 3103 (Su only).

English: All courses numbered below 4000 except: 1001, 1002, 3003, 3400, 3405, 3901, 3990.

Fine Arts: 2001, 2002, 2003.

Foreign Languages: All courses numbered below 4000 except: Foreign Language 3400, French 3300, 3750; German, 3303, 3750; Russian 3303; Spanish 3750.

History: 1100, 1200.

Journalism: 2100.

Music: 0100, 0110, 0120, 0300, 0600, 2561, 2562, 2563, 2564, 2565, 2566.

Philosophy: 1800, 1830, 1900, 2010, 2850, 2860, 2900, 3000, 3020, 3030, 3040, 3060, 3070, 3100, 3300, 3800, 3900.

Physical Education: 2230, 2240, 2270, 2960.

Speech Communication: 1400, 2170, 2300, 2320, 2340, 2520, 2540, 2830.

Theatre Arts: 1133, 2240, 3751, 3752.

MATHEMATICS — SCIENCE COURSES WHICH APPLY

The requirement is nine semester hours from more than one mathematics — science subject. If majoring in a mathematics — science subject, only six semester hours from one or more of other mathematics — science subjects must be taken. Courses which apply toward this requirement are:

Arts & Sciences: 2100 (1 sem. hr.), 3303 (Su only).

Botany: 1010.

Chemistry: 1050, 1300 & 1315, 1310 & 1315, 1410 & 1415, 1510 & 1515.

Earth Science: 1410.

Geology: 1400.

Life Science: 1000, 2010.

Mathematics: 1150, 1250, (1290 or 1300), 1310, (1320 or 1340), (2110 or 2340 or 2351), 2120, 2550, (2310 or 2320).

Physics: 1050, 1054, 1150, 1160, 1350, 1360.

Zoology: 1010, 2150, 2999.

SOCIAL STUDIES COURSES WHICH APPLY

The requirement is nine semester hours from more than one subject. If majoring in a social studies subject, only six semester hours from one or more of other social studies subjects must be taken. Courses which apply toward the requirement are:

Anthropology: 2730, 2742.

Arts & Sciences: 3203 (Su only)

Economics: 2801, 2802.

Geography: 1500.

History: 1000, 2010, 2020.

Home Economics: 2831.

Political Science: 1003, 1103, 2203, 2603.

Psychology: 2310, 2320.

Sociology: 2710, 2720.

Technology Education: 1413.

TRANSFER CREDIT

A student who has received an A.A. or A.S. degree in a baccalaureate oriented program from an Illinois public community college or from Lincoln College is considered as having met general education requirements. For other transfers:

- a. A transfer student who has completed two semesters of college English, a course in Health Education, and a course in Speech has met the all-university requirements (equivalent to at least five semester hours in English, two semester hours in Health Education, and two semester hours in Speech Communication).
- b. A transfer student will have met the distribution requirements if he has completed elsewhere the equivalent of:
 1. 9 sem. hrs. in a humanities subject or subjects.
 2. 9 sem. hrs. in a mathematics/science subject or subjects.
 3. 9 sem. hrs. in a social studies subject or subjects.Transfer students who have only partially filled the above requirements must complete the requirement in approved Eastern Illinois University distribution courses.
- c. Any transfer student who enters a teacher certification program must meet all requirements for teacher certification.

REQUIREMENTS FOR MAJORS AND MINORS FOR UNDERGRADUATE DEGREES

ACCOUNTING (B.S. BUS.)

Major:

Accountancy 2000, 2001, 3041, 3051, 3600, 4050, 4600, 4610, 4850	28 sem. hrs.
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 2460, 2810, 3010, 3340, 3470, 3800, 3950, 4360	24
Marketing 3470	3
Mathematics 1290, ¹ 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-Business elective	4
Total	93 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 2000, 2001, 3020	9 sem. hrs.
Business Education 3220, 3230, 4750	9
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 2460, 2810, 3010, 3340, 3830, 3950, 4360	21
Marketing 3470	3
Mathematics 1290, ¹ 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-Business elective	4
Choice of one of the following options	6
Total	86 sem. hrs.

I — Business Education 2240 and 2250.

II — Two courses in Data Processing.

III — Six semester hours in Accountancy courses numbered 3000 or above.

IV — Two of the following: Management 3450, 3550, 4380, 4450.

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

¹ Achievement on the EIU Mathematics Placement Examination will determine the exact need for mathematics courses. When the score indicates a requirement for fewer hours in mathematics, the remaining hours of the 11 hours requirement must be taken in non-business electives.

ADULT EDUCATION**Minor:**

Educational Foundation 4750	3 sem. hrs.
Secondary Education 4751, 4850	7
Eight semester hours chosen from: Occupational Education 4800, 4810, Business Education 3000 or Home Economics 3300, Educational Guidance 4900, Educational Psychology 4770, Educational Administration 4820, Home Economics 4846, Recreation 2250, 3830, Psychology 3540, Junior High School Education 4280, Instructional Media 4870, 4880, Technology Education 1413	8
Total	18 sem. hrs.

AFRO-AMERICAN STUDIES (B.S.)**Major:**

Afro-American Studies 2000	3 sem. hrs.
Art 2300	3
English 2705, 4750	6
History 3110, 3120, 4130	9
Music 2561	2
Sociology 2710, 3810, 4740	9
Three courses chosen from: Anthropology 2730, 3611, Geography 4760, History 3050, 3060, Music 2565, Political Science 3353, 3723, 4803, Psychology 4700, Sociology 2720, 3650, 4721, Theatre Arts 3398	8- 9
Total	40-41 sem. hrs.

(Major GPA based on specific required courses.)

Minor (for teacher certification)

Art 2300	3 sem. hrs.
English 2705, 4750	6
History 3110, 3120	6
Music 2561	2
Three courses from: Anthropology 2730, 3611, History 3050, 3060, 4130, Political Science 3353, Psychology 4700, Sociology 2710, 3810, 4740	9
Total	26 sem. hrs.

ART (B.A.)**Major: (Art)****Art History Option:**

Art 1000, 1110, 2050, 2100, 2601, 2602, 4798	25 sem. hrs.
Two courses chosen from: Art 2250, 2560, 2700, 2800	6
Electives chosen from: Art 2300, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 4400, 4765, 4790	23-26
Electives in art studio courses	9
Total	63-66 sem. hrs.

(Major GPA based on art courses only.)

Art Studio Option:

Art 1000, 1110, 2011, 2050, 2100, 2601, 2602, 3011	24 sem. hrs.
Art history courses numbered 3630 or above	6
Area I or II	34
	<hr/>
Total	64 sem. hrs.

Area I:

(Two-Dimensional): Art 2000, 2560; 2250 or 2700 or 2800; eighteen semester hours chosen from Art 2110, 2900, 3000, 3051, 3052, 3080, 3570, 3901, 3902, 4000, 4051, 4052, 4400, 4580; seven semester hours chosen from art history or Area II.
Total, 34 semester hours.

Area II:

(Three-Dimensional): Art 2250, 2700, 2800; eighteen semester hours chosen from Art 2110, 3111, 3112, 3251, 3252, 3701, 3702, 3801, 3802, 4111, 4112, 4251, 4252, 4400, 4701, 4702, 4800; seven semester hours chosen from art history or Area I.
Total, 34 semester hours.

(Major GPA based on art courses only.)

Visual Communications Option:

Art 1000, 1110, 2011, 2050, 2560, 2601, 2602, 2900, 3011, 3901, 3902	33 sem. hrs.
Technology Education 3122, 3132, 4124	8
Select electives from Art and Speech Communication 2530	7- 8
Eighteen semester hours chosen from art courses, management skills courses, energy policy courses, or any combination of those courses	18
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Total	66-67 sem. hrs.

(Major GPA based on art and technology education courses and Speech Communication 2530 only.)

ART EDUCATION (B.A. FOR TEACHER CERTIFICATION)

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

Art 1000, 1110, 2011, 2050, 2100, 2250, 2410, 2560, 2601, 2602, 2700, 3011, 3080, 3410, 3820	45 sem. hrs.
Electives in art	13
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Total	58 sem. hrs.

(Major GPA based on art courses only.)

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, 2290, 2300, 3300, 3541, 4811, 4851	26 sem. hrs.
Chemistry 1310 or 1300; 1315; (1410, 1415) or (1510, 1515)	8
Life Science 1000, 2010, 3200	9
Zoology 1010	4
Electives in Botany (except Botany 3450)	6
Electives in Mathematics/Science*	12

Total 65 sem. hrs.

(Major GPA based on Life Science 1000, 2010, 3200, and botany courses only.)

*Organic chemistry recommended.

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

Botany 1010, 1022, 2290, 2300, 3541	16 sem. hrs.
Chemistry 1310 or 1300; 1315; (1410, 1415) or (1510, 1515)	8
Life Science 1000, 2010, 3200, 3400	12
Zoology 1010; 2000 or 2100; 2999 or 3100; 3300	13-15
Electives in botany and/or zoology (except Botany 3450 and Zoology 4400)	6

Total 55-57 sem. hrs.

(Major GPA based on Life Science 1000, 2010, 3200, 3400 and botany courses only.)

BUSINESS EDUCATION (B.S. ED.)

The student may choose either a comprehensive major or a major with a minor in a second field.

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

The student will complete the business education core requirements and choose one of the three options: Comprehensive Basic Business, Comprehensive Secretarial, or Vocational Business Education. The program in Vocational Business Education and 2000 hours related work experience prepares the student as a reimbursable vocational business teacher as provided by the Illinois State Board of Vocational Education and Rehabilitation.

Accountancy 2000, 2001	6 sem. hrs.
Business Education 1420, 3000, 3220, 3230, 3400*, 4750	17
Business Education 2110 or two of 1110, 1120, 2110	3-6
Data Processing 2250	2
Economics 2801, 2802	6
Management 2460	3
One of the options listed below	10-15

Total 47-55 sem. hrs.

Comprehensive Basic Business Option:

Advanced accountancy course or Data Processing 2300	3
Business Education 3410, 3430	4
Management 3470	3

Total 10 sem. hrs.

Comprehensive Secretarial Option:

Business Education 2250 or two of 1240, 1250, 2240, 2250	3- 6
Business Education 2010, 3420, 3440	7
Total	10-13 sem. hrs.

Comprehensive Vocational Business Education Option:

Business Education 4920, 4940	4
Office Occupation or Marketing Emphasis	8-11
Total	12-15 sem. hrs.

Office Occupations Emphasis:

Business Education 2250 or two of 1240, 1250, 2240, 2250 . . .	3- 6 sem. hrs.
Business Education 2010	3
Business Education 3410 or 3430	2
Total	8-11 sem. hrs.

* Not required for ASEP students.

Marketing Emphasis:

Marketing 3470, 3510, 4875	9
Business Education 3410 or 3430	2
Total	11 sem. hrs.

(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)

Business Education 2110 or two of 1110, 1120, 2110	3- 6 sem. hrs.
Business Education 1420, 3000, 3220, 3230, 4750	15
Business Education 3400*	2
Business Education 3410 or 3440	2
Accountancy 2000, 2001	6
Data Processing 2250	2
Economics 2801, 2802	6
Management 2460	3
Total	39-42 sem. hrs.

* Not required for ASEP majors.

(Major GPA based on all business courses taken.)

Minor:

Accountancy Option:

Accountancy 2000, 2001	6 sem. hrs.
Business Education 3400, 3430	4
Data Processing 2250	2
Advanced accountancy courses	9
Business elective	3
Total	24 sem. hrs.

General Business Option:

Accountancy 2000, 2001	6 sem. hrs.
Business Education 3000, 3400, 3410	7
Data Processing 2250	2
Management 2460, 3470	6
Business elective	3
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Total	24 sem. hrs.

Secretarial Option:

Business Education 2110 or two of 1110, 1120, 2110	3- 6 sem. hrs.
Business Education 2250 or two of 1240, 1250, 2240, 2250	3- 6
Business Education 3220, 3230, 3400	8
Business Education 3420 or 3440	2
Electives in business	2- 8
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Total	24 sem. hrs.

Typewriting and Accountancy Option:

Business Education 2110 or two of 1110, 1120, 2110	3- 6 sem. hrs.
Accountancy 2000, 2001	6
Business Education 3220, 3400	5
Business Education 3430 or 3440	2
Data Processing 2250	2
Business electives	3- 6
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Total	24 sem. hrs.

CAREER OCCUPATIONS (B.S.)

Curriculum Concentrations:

- Business and Office Occupations
- Industrial/Technical Occupations

General Requirements:

English 1001, 1002	6 sem. hrs.
Health Education 1200	2
Speech Communication 1310	3
Mathematics/Science	9
Social Studies	9
Humanities	9

Major Requirements:

Occupational Education 3200	1-30
Occupational Education 3300	1-20
Occupational Education 4800	3
Occupational Education 4810	3

Strongly recommended electives:

Occupational Education 3800	6-18
Occupational Education 4300	3
Occupational Education 4600	3

 120 sem hrs.

Career Occupations (B.S. for Teacher Certification)

Major: (Standard High School Certificate)

Curriculum Concentrations:

Business and Office Occupations
Industrial/Technical Occupations

General Requirements:

English 1001, 1002	6 sem. hrs.
Health Education 1200	2
Speech Communication 1310	3
Mathematics/Science	9
Social Studies (exclusive of psychology)	3
Humanities	9

Major Requirements:

Occupational Education 3200	1-30
Occupational Education 3300	1-20
Occupational Education 4800	3
Occupational Education 4810	3

Strongly recommended electives:

Occupational Education 3800	6-18
Occupational Education 4300	3
Occupational Education 4600	3

Certification requirements:

Psychology 2310	3
U.S. history or U.S. government	3
Health or Physical Education	1
Educational Psychology 3320 or Secondary Education 3320	5
Educational Foundation 4450	3
Occupational Education 3400	3
Student Teaching 4301, 4304	5
Electives to total	120 sem. hrs.

CHEMISTRY (B.S.)

Major:

Chemistry 1310 or 1300; 1315, 1510; 1720 or (1515 and 2720)	10-11 sem. hrs.
Chemistry 2830, 2835, 2840, 2845, 3000, 3001, 3780, 3910, 3915, 3920, 4000, 4001, 4770, 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 (with Management Option) (B.S.)

Major:

Accountancy 2000, 2001	6 sem. hrs.
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Chemistry 1310 or 1300; 1315, 1510; 1720 or (1515 and 2720); 2830, 2835, 2840, 2845, 3780, 3910, 3915	27-28
Electives in chemistry	3
Data Processing 2250	2
Finance 3710	3
Economics 2801, 2802	6
Management 2460, 2810, 3010	9
Marketing 3470	3
Mathematics 2351, 2352	8
Physics 1350, 1360	8
Electives chosen from: Accountancy 3020; Data Processing 2300, 2310, 3290; Management 3550, 3800, 3820, 3950, 4360; Marketing 3410, 3490, 3510, 3720, 4760, 4860	3

Total 78-79 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 2720)	10-11 sem. hrs.
Chemistry 2830, 2835, 2840, 2845, 3100, 3460, 3780, 3910, 3915, 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 2440, 2720, 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.

** Physical Science 3400 may be omitted if the student has credit for Life Science 3400.

COMPUTATIONAL MATHEMATICS (B.S.)

Major:

Data Processing 2310	3 sem. hrs.
Mathematics 2310, 2351, 2352, 2353, 2670, 3501, 3502, 3531, 3532, 3570, 3670, 3701, 3702, 3770, 4080	58
Electives chosen from: Data Processing 3290, Mathematics 4750, 4760, Physics 1350, 1360, 3150	6- 8

Total 67-69 sem. hrs.

(Major GPA based on mathematics courses only.)

COMPUTER MANAGEMENT (B.S. BUS.)**Major:**

Accountancy 2000, 2001, 3020	9 sem. hrs.
Data Processing 2250, 2300, 2310, 3290, 3310, 3330, 4610	20
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 2460, 2810, 3010, 3340, 3950, 4360	18
Marketing 3470	3
Mathematics 1290 ¹ , 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-Business electives	4
Two of the following: Data Processing 4300, 4810, Management 3800, 3820, Mathematics 3670	6
Total	89 sem. hrs.

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

¹ Achievement on the EIU Mathematics Placement Examination will determine the exact need for mathematics courses. When the score indicates a requirement for fewer hours in mathematics, the remaining hours of the 11 hours requirement must be taken in non-business electives.

EARTH SCIENCE (B.S.)**Major:**

Chemistry 1300, 1315; or 1310, 1315	4 sem. hrs.
Earth Science 1410, 1420, 2420, 2460, 3410	16
Courses chosen from Geography 3800, 3810, 3580, 4800	7- 8
Geography 1500, 3870	6
Geology 1400, 2430, 3440, 3450, 4490	16
Life Science 1000	3
Mathematics 1300 or 1310	2- 3
Physics 1054	3
Electives chosen from <i>two</i> of the following sciences: botany, chemistry, geology, physics, zoology	8
Total	65-67 sem. hrs.

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

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

Chemistry 1300, 1315; or 1310, 1315	4 sem. hrs.
Courses chosen from: Earth Science 1410, 1420, 2420, 2460, 3410	13
Geography 3800, 3870	7
Geology 1400, 2430, 3440, 3450	13
Physical Science 3400	3
Physics 1054	3
One of the following: Mathematics 1290; 1300; 1310; or Physics 1350	2- 5

Total 45-48 sem. hrs.

(Major GPA based on Physical Science 3400 and earth science, geography, and geology courses only.)

Minor:

Chemistry 1300, 1315; or 1310, 1315	4 sem. hrs.
Earth Science 1410	4
Geology 1400, 2430	7
Physics 1054	3
Physical Science 3400	3
Two of the following earth science courses: 1420, 2420, 2460, 3410	6
Total	27 sem. hrs.

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 IN SOCIAL STUDIES)**Major:** (Standard High School Certificate)

Economics 2801, 2802, 4801, 4802, 4991	15 sem. hrs.
Social Science 3400	3
Electives in economics, excluding 3810, 4859	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.

Art 1650	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 1220, 3190	5
Music 1421	3

Physical Education 3600	2
Physical Science 1100*	4
Psychology 2310	3
Natural Science elective	3
Social Studies electives** (other than Psychology)	6
Special Education 2500	3
Speech Communication 1310	3
Student Teaching 4308	8
U.S. history or U.S. government	3
Humanities	3
Subject concentration	15-18
Electives as needed to complete 120 semester hours	

One of the following options:

Early Childhood Education: English 3405, Elementary Education 4480, Mathematics 3200; two of the following: Technology Education 2242, Music 3423, Art 2440. Students wishing to do student teaching in nursery-kindergarten must also take Elementary Education 4260. Total, 12-13 sem. hrs.

Intermediate: Elementary Education 4490, Mathematics 3210; two of the following: Technology Education 2252, Music 3421, English 3405, Art 2440. Total, 9-11 sem. hrs.

Comprehensive: Mathematics 3200 or 3210, Elementary Education 4480 or 4490; two of the following: Technology Education 2242 or 2252, Music 3421 or 3423, English 3405, Art 2440. Total, 9-11 sem. hrs.

* Four semester hours in Physics and/or Chemistry, including laboratory work, will fulfill this requirement.

** Two social studies electives should be chosen so that the student's total work in social studies includes at least two of the following disciplines: Anthropology, Economics, Geography, History, Political Science, Sociology.

An Area of Concentration consists of courses taken *in Addition to General Education or other curricular requirements.*

Transfer students will have their completed course work evaluated by the Dean of the School of Education or his designated representative.

Students select one Area of Concentration consisting of 15 semester hours. The concentration may be planned so as to supplement the student's professional goals or personal interests but must be done in consultation with each student's advisor.

In arranging their concentration, students should remember that their total program must include a minimum of 40 semester hours of upper division credit.

Areas of Concentration:

Adult Education
 Biological Sciences*
 Communications
 English*
 Fine Arts
 Foreign Language
 General Science*
 Guidance and Psychology
 Health Education-Home Economics
 Learning Resources
 Library Science*
 Mathematics*
 Nursery-Kindergarten
 Physical Sciences*
 Physical Education, Recreation, and Health Education*
 Social Sciences*

* While only 15 semester hours are required in the above concentrations, students wishing to teach in *departmentalized* programs (Grades 6-9) should be informed that to do so requires 18 semester hours in the teaching field. Further, where subject matter areas are divided into two or more specific courses, one must have at least five semester hours in the specific course to be taught. Please consult with advisor to select appropriate courses.

Adult Education: Educational Foundation 4750, Secondary Education 4751, 4850, Junior High School Education 4280, and two semester hours from approved adult education electives. Consult advisor for appropriate electives.

Biological Sciences:* Courses may be selected from Botany, Life Science, or Zoology but must include a minimum of five semester hours in Botany and five semester hours in Zoology.

Communications: Courses may be selected from English, Journalism, and Speech Communication. A minimum of five semester hours from *each of two* of these areas must be included. English courses must be selected from: English 2003, 2901, 3001, 3003, 3901, 4901.

English:* Must include English 2901 or one course in composition and one course in American Literature.

Fine Arts: Courses may be selected from the following areas: Art, Dance (Physical Education 2230, 2240, 2270, 3960), Fine Arts (2001, 2002, 2003), Music and Theatre Arts. Students emphasizing Music must include Music 2421 and 2422. More than one area must be represented and the student must plan his program in consultation with his advisor.

Foreign Language: Courses must be selected from one foreign language.

General Science:* Courses may be selected from any of the natural sciences with at least five semester hours in the Biological Sciences (Botany, Life Science, and Zoology) and five semester hours in the Physical Sciences (Chemistry, Earth Science, Geology, and Physics).

Guidance and Psychology: Educational Guidance 4900, 4910, Educational Psychology 4990; other courses selected from Educational Guidance, Educational Psychology, and Psychology.

Health Education-Home Economics: Courses may be selected from Health Education and Home Economics but must include five semester hours from each field. Recommended Home Economics courses are: 2850, 3190, 3300, 3853, 4854.

Learning Resources: Courses may be selected from Instructional Media and Library Science *excluding* Library Science 1200.

Library Science:* Courses may be selected from any Library Science courses *excluding* Library Science 1200. While 15 semester hours will satisfy graduation requirements, students should be aware that a minimum of 18 semester hours are required in order to serve as an elementary school librarian.

Mathematics:* Fifteen semester hours of Mathematics to be chosen in consultation with advisor.

Nursery-Kindergarten: Elementary Education 3260, 4260, Home Economics 3855; electives from Elementary Education 4775, Special Education 4750, 4760, Home Economics 4859, Speech Pathology & Audiology 4800.

Physical Sciences:* Courses may be selected from Chemistry, Earth Science, Geology, and Physics but must include a minimum of five semester hours each in any of two categories.

Physical Education, Recreation, and Health Education:* Must include Physical Education 3610, 3620, 3630, with the remaining courses to be selected from Physical Education, Recreation, and Health Education electives.

Social Sciences:* Courses may be selected from Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology. One of the Social Sciences not used to meet General Education or other curricular requirements must be represented.

FLEXIBLE PROGRAM FOR ELEMENTARY MAJORS WITH A 3.50 CUMULATIVE GPA

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, Special and Junior High School Education after completing 32 semester hours.

Art 1650	3 sem. hrs.
Elementary Education 2320, 3240, 3270, 3280	12
Educational Foundation 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics electives	5
Music 1421	3
Physical Education 3600	2
Physical Science 1100*	4
Psychology 2310	3
Science electives	3
Social Studies electives** (other than Psychology)	6
Special Education 2500	3
Speech Communication 1310	3
Student Teaching 4308	8
U.S. history of U.S. government	3
Humanities	3
Electives	45

* Four semester hours in Physics and/or Chemistry, including laboratory work will fulfill this requirement.

** The social studies electives should be chosen so that the student's total work in social studies includes at least two of the following disciplines: Anthropology, Economics, Geography, History, Political Science, Sociology.

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 1650	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 1220, 3190; 3200 or 3210	7
Music 1421	3
Physical Education 3600	2
Physical Science 1100*	4
Psychology 2310	3
Science electives	3
Speech Communication 1310	3
Student Teaching 4301, 4302, 4304, 4308	15
U.S. history of U.S. government	3
Select from two areas: Art 2440, Technology Education 2242 or 2252, Music 3421 or 3423	4-5

Humanities electives	3
Social Studies electives** (other than Psychology)	6
Special Education Requirements listed below	23
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, 4770, 4960; electives from: Special Education 3350, 3400, 3660, 4750, 4760, 4880, 4970, 4990, Elementary Education 4775, Educational Psychology 4770, Psychology 3550, Speech Pathology & Audiology 4800. Total, 23 sem. hrs. minimum.

* Four semester hours in Physics and/or Chemistry, including laboratory work, will fulfill this requirement.

** The Social Studies electives should be chosen so that the student's total work in social studies includes at least two of the following disciplines: Anthropology, Economics, Geography, History, Political Science, Sociology.

Learning Disabilities: Special Education 2500, 3350, 4770, 4990; electives from: Special Education 3300, 3400, 3660, 4750, 4760, 4880, 4960, 4970, Educational Psychology 4770, Psychology 3550, Speech Pathology & Audiology 4800, Elementary Education 4775. Total, 23 sem. hrs. minimum.

Socially and Emotionally Maladjusted: Special Education 2500, 3660, 4770, 4880; electives from Special Education 3300, 3350, 3400, 4750, 4760, 4960, 4970, 4990, Educational Psychology 4770, Elementary Education 4775, Psychology 3550, Speech Pathology & Audiology 4800. Total, 23 sem. hrs. minimum.

ENERGY MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2000, 2001; 3020 or 3701	9 or 8 sem. hrs.
Chemistry 1250, 1260	6
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Geology 3480	3
Home Economics 4300	2
Life Science 2010	3
Management 2460, 2810, 3340, 3550, 3950, 4360, 4813, 4850	24
Marketing 3600	3
Mathematics 1290 ¹ , 2110, 2120	11
Physics 1250, 1260	6
Political Science 4831, 4832, 4833	3
Industrial Technology 3933 or Chemistry-Physics 4950	3 or 4
Sociology 2710 or Political Science 2603	3

Total 89-91 sem. hrs.

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

¹ Achievement on the EIU Mathematics Placement Examination will determine the exact need for mathematics courses. When the score indicates a requirement for fewer hours in mathematics, the remaining hours of the 11 hours requirement must be taken in non-business electives.

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	9*
Industrial Technology 1043	3
Mathematics 1340 or 1320; 2351, 2352, 2353, 3501	17/19
Physics 1350, 1360, 1370, 2390, 2400	18
Speech-Communication 1310	3
Social Studies electives	9*

Total 75/77 sem. hrs.
 Elective credit to bring the total to 90 semester hours.

*These courses should be selected in consultation with the chairman of the Pre-Engineering Studies Committee to insure that the University of Illinois' requirements will also be fulfilled.

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 to provide at least three courses in a chosen group	36
Eight semester hours of college level courses in a single foreign language or six semester hours in English from the English groups	6- 8

Total 50-52 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
Eight semester hours of college level courses in a single foreign language or six semester hours in English from the English groups	6- 8

Total 50-52 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.
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	27
Eight semester hours of college level courses in a single foreign language or six semester hours in English from the English groups	6- 8
Total	44-46 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, 3300	13 sem. hrs.
Botany 3541 or Zoology 3100	4
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Economics 3810	3
Earth Science 1410 or 1420 or Geology 1400	3- 4
Life Science 1000, 2010, 3200, 4080, 4750	24
Zoology 1010, 2000 or 2100, 3300, 3700	14-15
Any two of: Botany 4811, Zoology 4800, 4810	6
Total	75-77 sem. hrs.

(Major GPA based on life science, botany, and zoology courses only.)

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

Accountancy 2000, 2001, 3020	9 sem. hrs.
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710, 3720, 4200, 4830	15
Management 2460, 2810, 3010, 3340, 3950, 4360	18
Marketing 3470	3
Mathematics 1290 ¹ , 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-business electives	4
Three of: Finance 3900, 4390, 4820, Management 3470, 4840	9
Total	86 sem. hrs.

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

¹ Achievement on the EIU Mathematics Placement Examination will determine the exact need for mathematics courses. When the score indicates a requirement for fewer hours in mathematics, the remaining hours of the 11 hours requirement must be taken in non-business electives.

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 course numbered 2201 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 and Foreign Language 3400 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 course numbered 2201 in that language. Foreign Language 3400, Methods of Teaching Foreign Language, must be included. A student with a double major in Foreign Languages need take the methods course only once.

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 and Foreign Language 3400 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 starting with courses numbered 1102 or above. The Foreign Language methods course may be included in the 24 hours unless the student must take this course for a major in another foreign language. 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:

Earth Science 1410	4 sem. hrs.
Geography 1500	3
Courses from: Earth Science 1420 or 3000, 2420, 2460, 3410	3
Courses from: Geography 2020, 3520, 3530, 3540, 3720	6
Courses from: Geography 3600, 3620, 3650, 3700, 3750, 3870, 3950, 4710, 4730, 4760	3
Courses from: Geography 3580, 3800, 3810, 4770, 4800	6- 8
Geography electives	12
Total	37-39 sem. hrs.

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

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

Earth Science 1410	4 sem. hrs.
Geography 1500	3
Courses chosen from: Earth Science 1420 or 3000; 2420, 2460, 3410	3
Courses chosen from: Geography 2020, 3520, 3530, 3540, 3720	6
Courses chosen from: Geography 3600, 3620, 3650, 3700, 3750, 3870, 3950, 4710, 4730, 4760	6
Courses from: Geography 3580, 3800, 3810, 4770, 4800	6- 8
Geography 3400 or Social Science 3400	3
Geography electives	12
Total	43-45 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, 2460, 3000	3- 4 sem. hrs.
One of the following: Geography 2020, 3520, 3530, 3540, 3720	3
One of the following: Geography 1500, 3600, 3620, 3650, 3700, 3750, 3870, 3950, 4710, 4730, 4760	3
One of the following: Geography 3580, 3800, 3810, 4770, 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 3040, 3460, 3470, 4400, Earth Science 2420, 2460, Geography 3800, 4800	7
Geology 1400, 2430, 2440, 3430, 3440, 3450, 4450, 4490	26
Life Science 1000	3
Mathematics 1300, 1310, 1340	8
Physics 1350	4
Zoology 1010 or Botany 1010	4
Total	60 sem. hrs.

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

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

Health Education 2270, 3200, 3400, 3750, 4000, 4010, 4020	20 sem. hrs.
Life Science 1000	3
Zoology 2999	3
Twelve semester hours chosen from at least three of the following areas:	12
<i>Ecological Relationships:</i> Life Science 2010	
<i>Disease Control:</i> Health Education 2900	
<i>Human Sexuality and Family Life:</i> Health Education 3500, Home Economics 2800, Sociology 4730	

Food Practices and Eating Patterns: Home Economics 3190
Safety: Health Education 1320 or 3000; 3001, 3300, 3340, 3350
Mood-Modifying Substances: Health Education 4800
Mental/Emotional Health: Psychology 3550
Supportive Content: Health Education 4741, 4760, 4820, 4996,
 Sociology 4702

Total 38 sem. hrs.

(Major GPA based on health education courses only.)

Minor: (for teacher certification)

Health Education 1200, 2270, 3200, 3400 11 sem. hrs.

Nine semester hours taken from three or more of the following areas: 9

Ecological Relationships: Life Science 2010

Disease Control: Health Education 2900

Human Sexuality and Family Life: Health Education 3500, Home
 Economics 2800, Sociology 4730

Food Practices and Eating Patterns: Home Economics 3190, 1150

Safety: Health Education 1320 or 3000; 3001, 3300, 3340, 3350

Mood-Modifying Substances: Health Education 4800

Mental/Emotional Health: Psychology 3550

Total 20 sem. hrs.

HISTORY (B.A.)

Major:

History 1100, 2010, 2020, 3000, 3005, 3500 18 sem. hrs.

History electives numbered above 3000 to include 9 sem. hrs. in U.S. history
 and 9 sem. hrs. in non-U.S. history 27

Total 45 sem. hrs.

(Major GPA based on history courses only.)

HISTORY (B.A. FOR TEACHER CERTIFICATION)

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

History 1100, 2010, 2020, 3000, 3005, 3500 18 sem. hrs.

History electives numbered above 3000 to include nine semester hours in U.S.
 history and nine semester hours in non-U.S. history 18

Social Science 3400 3

Total 39 sem. hrs.

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

Minor: (for teacher certification)

History 1100, 2010, 2020, 3000, 3005, 3500 18 sem. hrs.

History electives numbered above 3000 to include three sem. hrs. in U.S.
 history and three sem. hrs. in non-U.S. history 6

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 communication.

HOME ECONOMICS (B.S.)**Major:** (Home Economics)**Dietetics Option:**

Accountancy 2000	3 sem. hrs.
Botany 2340	3
Chemistry 1300 or 1310; 1315, 1410, 1415, 2430, 2435, 3460	17
Economics 2801	3
Home Economics 1120, 1150, 2120, 2400, 3120, 3140, 3150, 3400, 4140, 4150	26
Management 3010, 3450	6
Mathematics 1290 (or higher)	5
Psychology 2310, 3620	6
Sociology 2710	3
Zoology 2999	3
Total	75 sem. hrs.

Home Economics in Business Option:

Economics 2801, 2802	6 sem. hrs.
Home Economics 2400, 3300, 3920, 4300	8
Journalism 3102	2
Psychology 2310	3
Area I or II or III	53-63
Total	72-82 sem. hrs.

Area I (Foods & Nutrition): Botany 2340; Business Education 1420; Chemistry 1300 or 1310, 1315; Home Economics 1120, 1150, 2120, 2250, 3120, 3140, 3150, 3925, 4140; Management 3010, 3830; Marketing 3470, 3510; 2 sem. hrs. in psychology; 15 sem. hrs. in Home Economics electives. Total, 63 sem. hrs.

Area II (Clothing & Merchandising): Data Processing 2250; Home Economics 2231, 2232, 2244, 2245, 2250, 3234, 3235, 3237, 3370, 3925, 4238, 4280; Management 3010, 3450, 3830; Marketing 3470, 3720, 4875. Total, 53 sem. hrs.

Area III (Consumer Affairs): Accountancy 2000, 2001, 2200; Finance 3700, 3720, 3900; Home Economics 1120, 1150, 2244, 2250, 2270, 2800, 3370, 4840; Business Education 2010; Management 2460; Marketing 3470, 3720; Mathematics 1250 or higher; Psychology 4870; Sociology 2710. Total, 60 sem. hrs.

Family Service Option:

Educational Guidance 4900	3 sem. hrs.
Home Economics 1120, 1150, 2270, 2400, 2800, 2850, 3300, 3307, 3370, 3800, 3820, 3853, 4300, 4840, 4845, 4846	42
Psychology 2310, 3520, 4780	8
Sociology 2710, 2720, 3600	9
Psychology or Sociology electives	6
Total	68 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, 2400, 2800, 2850, 3234, 3235, 3300, 3307, 3370, 3371, 3400, 3853, 4400, 4840	51 sem. hrs.
Economics 2801	3
Psychology 2310	3
Total	57 sem. hrs.

(Major GPA based on home economics courses only.)

Minor: (for teacher certification)

Home Economics 1120, 2800, 2850, 3234, 3235, 3400; 2244 or 3300	18-19 sem. hrs.
Electives in home economics	6-5
Total	24 sem. hrs.

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 Technology 1043, 1162, 3003, 3012, 3043, 4002, 4043	18
Management 3010, 3830, 3950	9
Data Processing 2300 or Mathematics 2310	3
Mathematics 1340, 2340	6
Physics 1350, 1360	8
Psychology 3530	2
Technology Education 1413, 2064	7
Option in electronics, construction, metal work, or general	12
Total	84 sem. hrs.

(Major GPA based on specified courses only.)

JOURNALISM (B.A.)

Major:

Journalism 2100, 2101, 2102, 3001, 3100, 3101, 3102, 4100, 4101	21 sem. hrs.
Courses chosen from: Political Science 2603, 3733, Technology Education 4113, English 2003, History 3180, Sociology 3681, Philosophy 3300, Speech Communication 2520, Economics 3835, Marketing 3510	15
Upper division courses chosen in consultation with student's advisor	12
Total	48 sem. hrs.

(Major GPA based on journalism courses only.)

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.)

Although this curriculum leads to a Standard High School Certificate enabling the graduate to teach in grades 6-12, the emphasis of the program is to provide special preparation for those interested in teaching in the departmentalized Junior High or Middle School (grades 6-9). The student must choose a major field of specialization and a minor field of specialization (or three minor fields) as outlined below.

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)	9
Mathematics-Science (see General Education Requirements)	9
Social studies electives (other than Psychology)	3
Physical education or health 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; 1110 or 1650; 2050 or 3080; 2250 or 2700 or 2340; 2410 or 2440; 2651; 3410; art electives. Total, 24 sem. hrs.

BIOLOGICAL SCIENCES

Field I: Life Science 1000, 2010, 3200; Botany 1010, 1022 or 2300; Zoology 1010, 2100 or 3300, 3700. Electives in botany, zoology, or life science. (Field I must include a minimum of 8 sem. hrs. in botany and 8 sem. hrs. in zoology. Total, 32 sem. hrs.)

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

ENGLISH

Field I: English 1001, 1002, 2701 or 2702, 2901, 3001; Library Science 4320; Speech Communication 1310; one of English 2601, 2801, 2802, 2805, 2806. Total, 32 sem. hrs.

Field II: English 1001, 1002; 2701 or 2702; 3001; Library Science 4320; one of English 2801, 2802, 2805, 2806; Speech Communication 1310; electives 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, 32 sem. hrs.

Field II: 1101, 1102, 2201, 2202, 3400, electives in that language. Total, 24 sem. hrs.

GEOGRAPHY

Field II: Geography 1500, 2020, 3600 or 3870, 3540; electives in geography. Total, 24 sem. hrs.

HISTORY

Field II: History 1100*, 2010, 2020, 3000, 3005; 2 or 3 sem. hrs. in U.S. history; electives. Total, 24 sem. hrs.

*This course will count as general education humanities course but not as general education social studies course.

HOME ECONOMICS

Field II: Home Economics 1120, 1150, 2244, 2800, 2831, 2850, 3234, 3235, 3300. Total, 24 sem. hrs.

INDUSTRIAL ARTS

Field II: Technology Education 1293, 1413, 2064, 2114, 2324, 3400; electives in industrial technology or technology education. Total, 24 sem. hrs.

LIBRARY SCIENCE

Field II: Library Science 4200; 4300 or 4320; 4490, 4750, 4760, 4770; Instructional Media 4870, 4880. Total, 24 sem. hrs.

MATHEMATICS

Field I: Mathematics 1250, 1220; 1320 or (1310 and 1340); 2310 or 2320; 2351, 2352, 3271; electives in mathematics numbered above 2000 except 2110, 2120, 2320, or 2340, upper division recommended. Total, 32 sem. hrs.

Field II: Mathematics 1250, 1220; 1320 or (1310 and 1340); 2351, 3271; electives in mathematics numbered above 2000 except 2110, 2120, 2320, or 2340, upper division recommended. Total, 24 sem. hrs.

PHYSICAL EDUCATION

Field II: Physical Education 1530 or 2410, 2440, 3400, 4320, two semester hours from Physical Education 2101, 2102, 2103, 2320; two semester hours from Physical Education 2104, 2370, 2380; two semester hours from Physical Education 1900, 1920, 1930, 2220; two or three semester hours from any 2000-level technique/theory course or 3000-level teaching/coaching course; three or two semester hours from physical education service courses (including an aquatics course or swimming proficiency). Total, 24 sem. hrs.

PHYSICAL SCIENCE

Field I: Chemistry 1300 or 1310; 1315; either (Chemistry 1410, 1415); or (Chemistry 1510, 1515); either (Physics 1150, 1160) or (Physics 1350, 1360); electives from chemistry, geology — earth science, physics with at least one course in each field. Total, 32 sem. hrs.

Field II: Chemistry 1300 or 1310; 1315; either (Chemistry 1410, 1415) or (Chemistry 1510, 1515); Physical Science 1100 or Chemistry 2720; either Physics (1150, 1160) or (1350, 1360); electives from chemistry, geology — earth science, or physics. (Field II must include a minimum of 10 sem. hrs. in chemistry and 10 sem. hrs. in physics.) Total, 24 sem. hrs.

SOCIAL STUDIES

- Field I:** History 2010, 2020, 3000, 3005; two or three semester hours in U.S. history (upper division recommended); two or three semester hours in World or European history (upper division recommended); eight semester hours in geography or eight semester hours in political science; three semester hours in anthropology or sociology; three semester hours in economics. Electives in social studies other than psychology. Total, 32 sem. hrs.
- Field II:** History 2010, 2020, 3000, 3005; two or three semester hours in U.S. history electives (upper division recommended); two or three semester hours in World or European history (upper division recommended); six semester hours from one of the following: economics*, geography*, or political science*. Electives in social studies other than psychology. Total, 24 sem. hrs.

*Students should be aware that eight semester hours are required to teach these subjects in Illinois high schools.

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:** Special Education 2500, 3300, 3400, 4770; Student Teaching 4301, 4304; electives from: Speech Pathology & Audiology 4800, Special Education 3350, 3660, 4750, 4760, 4880, 4960, 4970, 4990. 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:** Special Education 2500, 3350, 4770, 4990; Student Teaching 4301, 4304; electives from: Speech Pathology & Audiology 4800, Special Education 3300, 3400, 3660, 4750, 4760, 4880, 4960, 4970. Total, 24 sem. hrs.

SPECIAL EDUCATION — SOCIALLY AND EMOTIONALLY MALADJUSTED*

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

- Field II:** Special Education 2500, 3660, 4770, 4880; Student Teaching 4301, 4304; electives from: Speech Pathology & Audiology 4800, Special Education 3300, 3350, 3400, 4750, 4760, 4960, 4970, 4990. Total, 24 sem. hrs.

*Note: 24 sem. hrs. satisfies requirements for a letter of approval to teach Special Education in grades (6-12). A total of 32 sem. hrs. in Special Education is needed for (K-12) certification.

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 2170, 3200, 3230; one of the following: Theatre Arts 2257, 3431, 3445; electives from speech communication, speech pathology and audiology, theatre arts, and/or journalism. Total, 24 sem. hrs.

LEARNING RESOURCES

Minor:

Instructional Media 2870, 3220, 3230, 3240 12 sem. hrs.

Six semester hours chosen from: English 3504, 3505; Library Science 4200, 4300, 4320, 4750, 4760, 4770; Data Processing 2250, 2300, 3290, 3310, 3330, 4610, 4810; Speech Communication 2520, 2540, 3530, 3540

6

Total 18 sem. hrs.

LIBRARY SCIENCE

Minor: (for teacher certification)

Library Science 4200; 4300 or 4320; 4490, 4750, 4760, 4770 18 sem. hrs.

MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2000, 2001, 3020	9 sem. hrs.
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 2460, 2810, 3010, 3340, 3830, 3950, 4310, 4360	24
Marketing 3470	3
Mathematics 1290 ¹ , 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-business elective	4
Option A or B	12 or 15

Total 86 or 89 sem. hrs.

Option A — Management 3800, 3820, 4320, 4350. Total, 12 sem. hrs.

Option B — Management 3450, 3470, 4370, 4380, 4450. Total, 15 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 2000, 2001, 3020	9 sem. hrs.
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 2460, 2810, 3010, 3340, 3950, 4360	18
Marketing 3470, 3510, 3720, 4860; 3490 or 4760	15
Mathematics 1290 ¹ , 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Electives in Marketing	6
Non-business elective	4

Total 86 sem. hrs.

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

¹ Achievement on the EIU Mathematics Placement Examination will determine the exact need for mathematics courses. When the score indicates a requirement for fewer hours in mathematics, the remaining hours of the 11 hours requirement must be taken in non-business electives.

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

Mathematics 2310, 2351, 2352, 2353, 3531, 3532	22 sem. hrs.
Electives chosen from any mathematics course numbered 2250 or above including at least four of the following: 3501, 3502, 3701, 3702, 4770, 4860	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.

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

MEDICAL TECHNOLOGY (B.S.)

This cooperative degree program, administered by the Health Professions 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.

After completing 40 semester hours of this program a student should apply to the Health Professions Studies Committee for admission to the medical technology program. Requirements for admission to the program and for continuing in the program include a cumulative grade-point average of 2.50, or better, and approval by the Committee. The decisions of the Committee are based on the availability of spaces in approved affiliated hospitals for the fourth year of the program as well as the applicant's academic qualifications. Admission to the medical technology program does not insure admission to an affiliated hospital medical technology program. Eastern Illinois University cannot guarantee admission to any of its affiliated hospitals.

All University Requirements:

English 1001, 1002	6 sem. hrs.
Health Education 1200	2
Speech Communication 1310	3
Humanities electives	9
Social Studies electives	9
Total	29 sem. hrs.

Special Requirements:

Mathematics elective	3 sem. hrs.
Life Science 1000	3
Zoology 1010, 2000, 3600	10
Botany 3300	4
Chemistry 1310 or 1300; 1315, 1410, 1415, 2430, 2435, 2720	16
Total	36 sem. hrs.

Electives 25 sem. hrs.

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

Total 120 sem. hrs.

MUSIC (B.MUS.)

Major: (Music)

History-Literature Option:

Music 1103 (each semester), 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204, 2541, 2542, 2543, 2580, 3547 or 4750, 3571, 3572	29 sem. hrs.
Electives from Music 4541, 4542, 4600 (Theory; may include up to six sem. hrs.), 3547, 4750, 4840, 4850, 4990 (Theory)	15-19
Primary instrument or voice	8
Foreign Language*	8
Music ensembles (at least two different ensembles)	6
Total	66-70 sem. hrs.

Performance Option:

Music 1103 (each semester), 1541, 1542, 1543, 1544, 2541, 2542, 2543, 2580, 3571, 3572	23 sem. hrs.
Electives from 4541, 4542, 4600 (Theory), 3547, 4750, 4840, 4850, 4990 (Theory)	7
Choose one of the following emphases	44-56
Total	74-86 sem. hrs.

1. String, Wind, or Percussion Instrument Emphasis.

Two semesters of class piano or completion of Music 2204; Music 2360, 3260, 3547; 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, or 0120; 30 sem. hrs. in primary instrument. Total, 44 sem. hrs.

2. Keyboard Emphasis.

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, 4920 (taken twice); 30 sem. hrs. in 0060 (may include four sem. hrs. of secondary keyboard applied); one sem. hr. in music electives. Total, 40 sem. hrs.

b. Organ Primary: Music 4900; 30 sem. hrs. in 0061 (may include four sem. hrs. of secondary keyboard applied); 8 sem. hrs. in music electives. Total, 40 sem. hrs.

3. Vocal Emphasis.

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.

*This fulfills the humanities requirement.

Theory-Composition Option:

Music 1103 (each semester), 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204, 2541, 2542, 2543, 2580, 3547, 3571, 3572, 4541, 4542	33 sem. hrs.
Electives from Music 4541, 4542, 4600 (Theory), 3547, 4750, 4840, 4850, 4990 (Theory)	7
Primary instrument or voice	10
Music 0070 and approved electives in music	18
Electives in ensemble	6
Total	74 sem. hrs.

(Major GPA based on music courses only.)

MUSIC EDUCATION (B.MUS. FOR TEACHER CERTIFICATION)

Major: (Standard Special Certificate. The student chooses one of three options.)

Music 1103 (each semester), 1541, 1542, 1543, 1544, 2440, 2541, 2542, 2543, 2580, 3571, 3572	24 sem. hrs.
Electives from Music 3547, 4541, 4542, 4600 (Theory), 4750, 4840, 4850, 4990 (Theory)	5
Choose one of the following emphases	32-37

Total 61-66 sem. hrs.

1. Instrument Emphasis.

Music 1136 or (1137 and 2136); 1301, 2360, 3260, 3400; 3547 or 4840 or 4850. Choose one of three principals listed below. (32-35 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 Emphasis.

Music 2155, 3155, 3439, 3440; one course from 3547, 4750, 4840, 4850; 4 sem. hrs. in vocal ensemble. Choose one of three principles listed below. (34-36 sem. hrs.)

- Vocal Principal. Music 1301, 1302, 1305. Four semesters of class piano or completion of Music 2204, 2141, 2142, 3120 (taken twice); 9 sem. hrs. in applied voice. Total, 22 sem. hrs.
- Keyboard Principal. Music 1136 or 1137; 1301, 1302, 1305; 2136 (taken twice); 2205, 2206, 3221 (Pianist) or 4900; 10 sem. hrs. in applied keyboard. Total, 20-22 sem. hrs.
- Composition Principal. Music 1136 or 1137. Four sem. hrs. of class piano or completion of Music 2204; 2136 (taken twice); 2141, 2142; 10 sem. hrs. in Music 0070; two courses from Music 1301, 1302, 1303, 1304, 1305. Total, 21-22 sem. hrs.

3. General Music Emphasis.

Fine Arts 2002; Music 3439 or 3400; Music 3440; (Music 2155, 3155) or (Music 2360, 3260); 4 sem. hrs. in applied music; 2 sem. hrs. in keyboard; 2 sem. hrs. in ensemble; 18 sem. hrs. selected from at least three of the following areas: art, literature, theatre arts, and philosophy with no more than nine sem. hrs. in any one of the areas. Total, 37 sem. hrs.

(Major GPA based on music courses only.)

Minor: (for teacher certification)

Music 1103, 1541, 1542, 1543, 1544, 2440, 2541, 2543, 2580, 3572	18 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, 3260, 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	31 sem. hrs.
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PHILOSOPHY (B.A.)**Major:**

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

(Major GPA based on philosophy courses only.)

PHYSICAL EDUCATION (B.S.)**Major:**

Physical education service courses (include one aquatics course or proficiency) .	6 sem. hrs.
Physical Education 1500, 1520, 2000, 2410, 2440, 2450, 4320, 4750	20
Zoology 2999	3
Electives from 2000-level technique courses	12
One or more from: 2320*, 2101, 2102, 2103	
One or more from: 2370, 2380, 2104	
Two or more from: 2220*, 2230**, 2240, 2250	
Field of specialization	12
Electives in courses from health education, physical education, and recreation .	6
Total	59 sem. hrs.

Fields of Specialization

Dance: Physical Education 2270, 2960, 3230, 3200, 3220, 3250, 3620, 4741.

Coaching: Four semester hours from: P.E. 2000-level technique/theory courses not taken as part of the general major, 2450; eight semester hours from: P.E. 3000-level teaching/coaching courses, 3130, 3700, 4340, 4741.

General: Courses to be selected in physical education in any combination from each field of specialization.

(Major GPA based on physical education courses only.)

Athletic Training. Note that the following courses (not a major or minor) constitute requirements for national certification as an athletic trainer (see Chairman of the Physical Education Department):

Physical Education 1520, 2440, 2450, 3130, 4340, 4770	14 sem. hrs.
Health Education 1200; 1320 or 3000	4- 5

*2320, 2220 required of all physical education majors.

**2230 required of all women physical education majors.

Home Economics 3190	2
Zoology 2000 or 2100; 2999	6- 7
Psychology 2310, Educational Psychology 3320	8
Electives from Physical Education 3000-level coaching courses, Physical Education 3700, 4741, Physics 1150, 1160, Chemistry 1300, 1315, Botany 3300, Life Science 3200	6
Total	40-42 sem. hrs.

PHYSICAL EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (K-12 Standard Special Certificate)

Physical Education service courses (include one aquatics course or proficiency)	6 sem. hrs.
Physical Education 1500, 1520, 2000, 2410, 2440, 2450, 3400, 4320, 4750 . .	23
Zoology 2999	3
Electives from 2000-level technique courses	12
One or more from: 2320*, 2101, 2102, 2103	
One or more from: 2370, 2380, 2104	
Two or more from: 2220*, 2230**, 2240, 2250	
Field of specialization	12
Elective courses from health education, physical education, and recreation . .	6
Total	62 sem. hrs.

Fields of Specialization

Dance: 12 semester hours from Physical Education 2270, 2960, 3230, 3200, 3220, 3250, 3620, 4741.

Elementary: Physical Education 3620, 3630, 3640; 3 sem. hrs. from Physical Education 3610, 4741, 4800, 3130 or Health Education 1320 or 3000, Elementary Education 2320. Total, 12 semester hours.

Secondary Teaching: 8-12 sem. hrs. from Physical Education 2000-level technique/theory courses, not taken as part of the general major requirements, 3000-level teaching/coaching courses, Physical Education 2450; and 4-0 sem. hrs. from Physical Education 3130, 3700, 4340, 4741. Total, 12 semester hours.

Secondary Coaching: 4 sem. hrs. from Physical Education 2000-level technique/theory courses, not taken as part of the general major requirements, Physical Education 2450; and 8 sem. hrs. from 3000-level teaching/coaching courses, Physical Education 3130, 3700, 4340, 4741. Total, 12 semester hours.

General: 12 sem. hrs. selected in physical education in any combination from each field of specialization.

(Major GPA based on physical education courses only.)

PHYSICAL EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (6-12 Standard High School Certificate)

Physical Education service courses (include an aquatics course or proficiency) .	6 sem. hrs.
Physical Education 1500, 1530, 2000, 2440, 3400, 4320, 4750	19
Physical Education 2220 or two of the following: 1900, 1920, 1930	2

*Required of all physical education majors.

**Required of all women physical education majors.

Zoology 2999	3
Field of Specialization	12
Total	42 sem. hrs.

Note: Physical Education 2230 is required of women physical education majors.

Fields of Specialization

Dance: 12 sem. hrs. from: Physical Education 2270, 2960, 3230, 3200, 3220, 3250, 3620, 4741.

Secondary Teaching: 8-12 sem. hrs. from: 2000-level technique/theory courses, not taken as part of the general major requirements, 3000-level teaching/coaching courses, Physical Education 2450; and 4-0 sem. hrs. from: Physical Education 3130, 3700, 4340, 4741. Total, 12 semester hours.

Secondary Coaching: 4 sem. hrs. from: 2000-level technique/theory courses not taken as part of the general major requirements, Physical Education 2450; and 8 sem. hrs. from: 3000-level teaching/coaching courses, Physical Education 3130, 3700, 4340, 4741. Total, 12 semester hours.

General: 12 sem. hrs. from physical education courses in any combination from each field of specialization.

(Major GPA based on physical education courses only.)

Athletic Training. (See section under Physical Education — B.S. above.)

Minor: (for teacher certification)

Teaching Option:

Physical Education service courses (include an aquatics course or proficiency)	3- 4 sem. hrs.
Physical Education 2440, 3400, 4320	10
Electives from Physical Education 2104, 2370, 2380	4
Electives from Physical Education 2101, 2102, 2103, 2320	4
Physical Education 2220 or two from: 1900, 1920, 1930	2
Electives from Physical Education 1520, 3130, 4750, 2000-level technique/theory courses, 3000-level teaching/coaching courses	4- 3
Total	27 sem. hrs.

Coaching Option:

Physical Education service courses (include an aquatics course or proficiency and a dance course)	2 sem. hrs.
Physical Education 2440, 3130, 3400, 3700, 4320, 4340	17
Electives from: Physical Education 2101, 2102, 2103, 2104, 2320, 2370, 2380	2
Electives from: Physical Education 3330, 3350, 3370, 3380, 3470, 3480, 3490, 3500, 3550	6
Total	27 sem. hrs.

PHYSICS (B.S.)

Major:

Chemistry 1310 or 1300; 1315, 1510; 1515 or 1720	8-10 sem. hrs.
Mathematics 2351, 2352, 2353, 3501, 3502	17
Physics (1350, 1360)*	8
Physics 1370, 2390, 2400, 3410, 3420, 4000, 4010, 4840, 4850	27
Electives chosen from Physics 3150, 4410, 4470, 4750, 4860, 4870	6- 8
Total	66-70 sem. hrs.

(Major GPA based on physics courses only.)

PHYSICS (with Management Option) (B.S.)**Major:**

Accountancy 2000, 2001	6 sem. hrs.
Chemistry 1310 or 1300; 1315, 1510; 1515 or 1720	8-10
Data Processing 2250	2
Economics 2801, 2802	6
Finance 3710	3
Management 2460, 2810, 3010	9
Marketing 3470	3
Mathematics 2351, 2352, 2353	11
Physics (1350, 1360)*	8
Physics 1370, 2390, 2400, 3410, 4000, 4010	16
Electives from Physics 3150, 3420, 4470, 4750, 4840, 4850, 4860	9

Total 81-83 sem. hrs.

(Major GPA based on physics courses only.)

*or (1150, 1360) or (1150, 1160) with permission of the chairman of the department.

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

Chemistry 1300 or 1310; 1315, 1510, 1515*	8 sem. hrs.
Mathematics 2320**, 2351, 2352, 3501	12
Physical Science 3400	3
Physics (1350, 1360)***, 1370, 2390, 2400, 3150, 3410, 4000, 4010, 4470, 4830, 4850	38

Total 61 sem. hrs.

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

Minor: (for teacher certification)

Chemistry 1300 or 1310; 1315, 1510, 1515*	8 sem. hrs.
Mathematics 2351, 2352	8
Physical Science 3400****	3
Physics (1350, 1360)***, 1370, 4830	15
Electives chosen from Physics 2390, 3150, 3410, 4470, 4750, 4850	3- 4

Total 37-38 sem. hrs.

* Students who wish to teach chemistry should take a minimum of 10 semester hours in order to meet certification requirements — they may choose to take Chemistry 1720 in place of 1515.

** Mathematics 2310 may be substituted for Mathematics 2320.

*** or (1150, 1360) or (1150, 1160) with permission of the chairman of the department.

**** Physical Science 3400 may be omitted if the student has credit in Life Science 3400.

POLITICAL SCIENCE (B.A.)**Major:**

Political Science 1003, 1103, 2003, 2052, 2603	14 sem. hrs.
One of Political Science 2203, 3203, 3223, 3373, (4821, 4822, 4823)	3
One of Political Science 3303, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4753, 4793, (4831, 4832, 4833), 4843, 4894	3-4

One of Political Science 3513, 3523, 3533, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in Political Science	9

Total 38-40 sem. hrs.

(Major GPA based on political science courses only.)

POLITICAL SCIENCE (B.A. FOR TEACHER CERTIFICATION IN SOCIAL STUDIES)

Major: (Standard High School Certificate)

Political Science 1003, 1103, 2003, 2052, 2603	14 sem. hrs.
One of Political Science 2203, 3203, 3223, 3373, (4821, 4822, 4823)	3
One of Political Science 3303, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4753, 4793, (4831, 4832, 4833), 4843, 4894	3-4
One of Political Science 3513, 3523, 3533, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in Political Science	9
Social Science 3400	3
Choice of one of the options listed below	16

57-59 sem. hrs.

I — 8 semester hours in U.S. history and 8 semester hours in European history. Total, 16 sem. hrs.

II — 8 semester hours in each of two of the following: economics, geography, sociology. Total, 16 semester hours.

(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, Health Professions 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*	16
Physics 1150; 1160 or 1350; 1360	8
Chemistry 2720 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

* Specific courses to be selected after consultation with the Chairman, Health Professions Studies Committee.

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, Health Professions Studies Committee, for the detailed requirements of this program.

PSYCHOLOGY (B.A.)

Major:

Psychology 2310, 2320, 3601	9 sem. hrs.
Choose one of the options listed below	23
Total	32 sem. hrs.

I *Scientific*: Psychology 2610, 3810 or 3820; 15 sem. hrs. of electives in psychology. Total, 23 sem. hrs.

II *Paraprofessional*: Psychology 3590, 3800*, 4780, 4840; 10 sem. hrs. of electives in psychology and/or Sociology 3600, Health Education 3500, 4800, Home Economics 4840. Total, 23 sem. hrs. (Major GPA based on psychology courses only.)

* Psychology 2610 and 3810, or Psychology 2610 and 3820, may be substituted for Psychology 3800 and four semester hours of psychology electives in completing Option II.

PSYCHOLOGY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Psychology 2310, 2320, 3601	9 sem. hrs.
Psychology 3800; or 2610 and either 3810 or 3820	4/ 8
Electives in psychology	19/15
Psychology 3400 or Social Science 3400	3
Total	35 sem. hrs.

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

Minor: (for teacher certification)

Psychology 2310, 2320	6 sem. hrs.
Psychology 3400 or Social Science 3400	3
Electives in psychology	14
Total	23 sem. hrs.

RECREATION (B.S.)

Major:

Art 1650	3 sem. hrs.
Music 1423	2
Political Science 2603	3
Psychology 2310	3
Recreation 1320, 1780, 2250, 2280, 3550, 3830, 4410, 4790, 4840, 4850	29
Sociology 2710	3
Theatre Arts 3431	3
Electives from Recreation 3510, 3560, 4741, 4760, 4800, 4900	9
Electives from economics, management, marketing, accountancy approved by advisor and department chairman	6
Electives from psychology or sociology	3

P.E. service courses, to include one aquatic and one rhythmical activity	6
Electives approved by advisor and department chairman	9
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Total	79 sem. hrs.

(Major GPA based on recreation courses only.)

SAFETY AND DRIVER EDUCATION

Minor: (for teacher certification)

Health Education 3300, 3310, 3320, 3340, 4900	14 sem. hrs.
Choose from the following: Health Education 2270, 3000, 3200, 3350; P.E. 3130; Political Science 2603, 3643; Psychology 3550, 4870	7
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Total	21 sem. hrs.

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 1100, 3000, 3005	9
Political Science 1103, two elective courses in political science	9
Social Science 3400	3
Sociology 2710, two elective courses in sociology	9
Upper division courses from economics, geography, political science, sociology-anthropology (may be in one, two, or three fields)	6
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Total	54 sem. hrs.

(Major GPA based on anthropology, economics, social science, political science, and sociology courses only.)

Minor: (for teacher certification)

Two of the following options	18 sem. hrs.
a. Economics 2801, 2802, plus an elective course in economics. Total, sem. hrs.	9
b. Political Science 1103, plus two elective courses in political science. Total, sem. hrs.	9
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
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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, psychology, or speech communication.

SOCIOLOGY (B.A.)

Major:

Sociology 2710, 3650, 4520, 4622, 4900; 3610 or Psychology 2610	18-19 sem. hrs.
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Anthropology 2730	3
Choose one of the options listed below	18
Total	39-40 sem. hrs.

I — General Studies in Sociology: Eighteen semester hours electives in sociology.

II — Community Services: Sociology 2720, 2761, 3600, 4730, 4740, 4800.

III — Community Analysis: Sociology 3622, 3700, 3791, 3801, 3810, 4721.

IV — Criminal Justice: Sociology 2761, 3780, 4750, 4770, 4790, Political Science 3513 or 3523.

V — Anthropology: Anthropology 2742; 15 sem. hrs. of electives in anthropology which may include Sociology 4900.

(Major GPA based on sociology courses only.)

SOCIOLOGY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Anthropology 2730	3 sem. hrs.
Sociology 2710, 3610, 4251, 4520, 4622, 4900	18
Electives in Sociology	18
Social Science 3400	3
Choose one of the options listed below	11-18
Total	53-60 sem. hrs.

I — 8 sem. hrs. in U.S. history and 8 sem. hrs. in world history. Total, 16 sem. hrs.

II — 8 sem. hrs. in U.S. history and 8 sem. hrs. in any history. Total, 16 sem. hrs.

III — Two of the following: Anthropology 3 sem. hrs.; economics 9 sem. hrs.; geography 8 sem. hrs.; political science 9 sem. hrs. Total, 11-18 sem. hrs.

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

SPEECH-COMMUNICATION (B.A.)

Major:

Speech-Communication courses excluding 3400, 3900, 4996. A maximum of four semester hours in a combination of Speech Communication 1020 and 3020 may be included. Theatre Arts 1132 and/or 1133 may be taken as part of the requirement	42 sem. hrs.
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(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, 3900	18 sem. hrs.
Electives in Speech Communication other than 1310	6
Two of the following options	24
Total	48 sem. hrs.

a. Radio-TV-Film: Four courses from Speech Communication 2530, 2540, 3520, 3530, 3540, 3620, 4750.

b. Public Address: Speech Communication 2170, 3200, 3230, 4800.

c. Interpersonal Communication: Four courses from Speech Communication 2830, 3300, 4470, 4760, 4860.

*d. Theatre Arts: Theatre Arts 1132, 1133, 2257, 3445.

*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, 3900	18 sem. hrs.
Speech-Communication 4750 or 4800 or 2830	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, 3651	32
Speech Pathology and Audiology 4700	2
Life Science 1000	3
Zoology 2999	3
Total	55 sem. hrs.

(Major GPA based on speech pathology and audiology courses only.)

Undergraduate Recommended Electives:

Educational Psychology 4770, English 2901, 3901; Home Economics 2850; Psychology 3600; Speech-Communication 2830, 4860; Zoology 2000

Note: A student may be denied admission to Speech Pathology and Audiology 4700 unless he has attained at least a 2.5 overall GPA, and at least a 2.75 GPA in the Speech Pathology and Audiology major. Those GPAs are also required for admission to the graduate program in speech pathology and audiology.

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 plus the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

SPEECH PATHOLOGY AND AUDIOLOGY (B.S.)

Major: (toward teacher certification)

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, 3651	32
Speech Pathology and Audiology 4700	2
Life Science 1000	3
Zoology 2999	3
Total	55 sem. hrs.

(Major GPA based on speech pathology and audiology courses only.)

Note: A student may be denied admission to Speech Pathology and Audiology 4700 unless he has attained at least a 2.5 overall GPA, and at least a 2.75 GPA in the Speech Pathology and Audiology major. Those GPAs are also required for admission to the graduate program in speech pathology and audiology.

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 Certificate 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.

TECHNOLOGY EDUCATION (B.S. FOR TEACHER CERTIFICATION)

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

Arts and Sciences 2100	2 sem. hrs.
Mathematics 1310, 2320	3
Technology Education 1413, 2064, 2114, 2324, 3073, 3400	21
Physics and/or Chemistry electives	7
Two concentrations in either electronics, graphics, graphic arts, metals, power, woods with no less than 6 semester hours in each	12
Total	45 sem. hrs.

(Major GPA based on industrial arts courses only.)

Minor: (for teacher certification)

Technology Education 1413, 2064, 2114, 2324, 3400	18 sem. hrs.
Technology Education or Industrial Technology electives*	6
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.

THEATRE ARTS (B.A.)

Major:

Theatre Arts 1101, 1102, 1132, 1133, 2240, 2244, 2257, 3001, 3333, 3357, 3358, 3445, 3751, 3752, 4001	37 sem. hrs.
English 3607 or 3608	4
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, 2240, 2244, 2257, 3001, 3333, 3357, 3358, 3445, 3751, 3752, 4001	37 sem. hrs.
English 3607 or 3608	4
Speech Communication 2320, 2340	6
Speech Communication 3400 or English 3400	3
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
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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.

THEATRE ARTS (B.A. FOR TEACHER CERTIFICATION)

Major: (Theatre Arts with Music-Theatre Option)

Theatre Arts 1101 or 1102, 1132, 1133, 2244, 2257, 3001, 3357, 3358, 3445, 3751 or 3752, 4001	27 sem. hrs.
Music 1136 or 0010; (1203 and 1204) or 0060; 1541, 1542, 1543, 1544; 2136 taken twice or 0010; 2155; (2203 and 2204) or 0060; 2580, 3120 taken three times	27
Music 0300, 3440	4
Physical Education 2230, 2240	4
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Total	62 sem. hrs.

ZOOLOGY (B.S.)

Major:

Botany 1010	4 sem. hrs.
Chemistry 1310 or 1300; 1315, 1410, 1415	8
Life Science 1000, 2010, 3200	9
Zoology 1010; 2100 or 2000; 2200, 3100; 3700 or 3600 or 4760; 4540	21-23
Electives in mathematics and in the physical sciences	12
Electives in zoology (except 2999) to total 31 sem. hrs. in zoology	10- 8
	—
Total	64 sem. hrs.

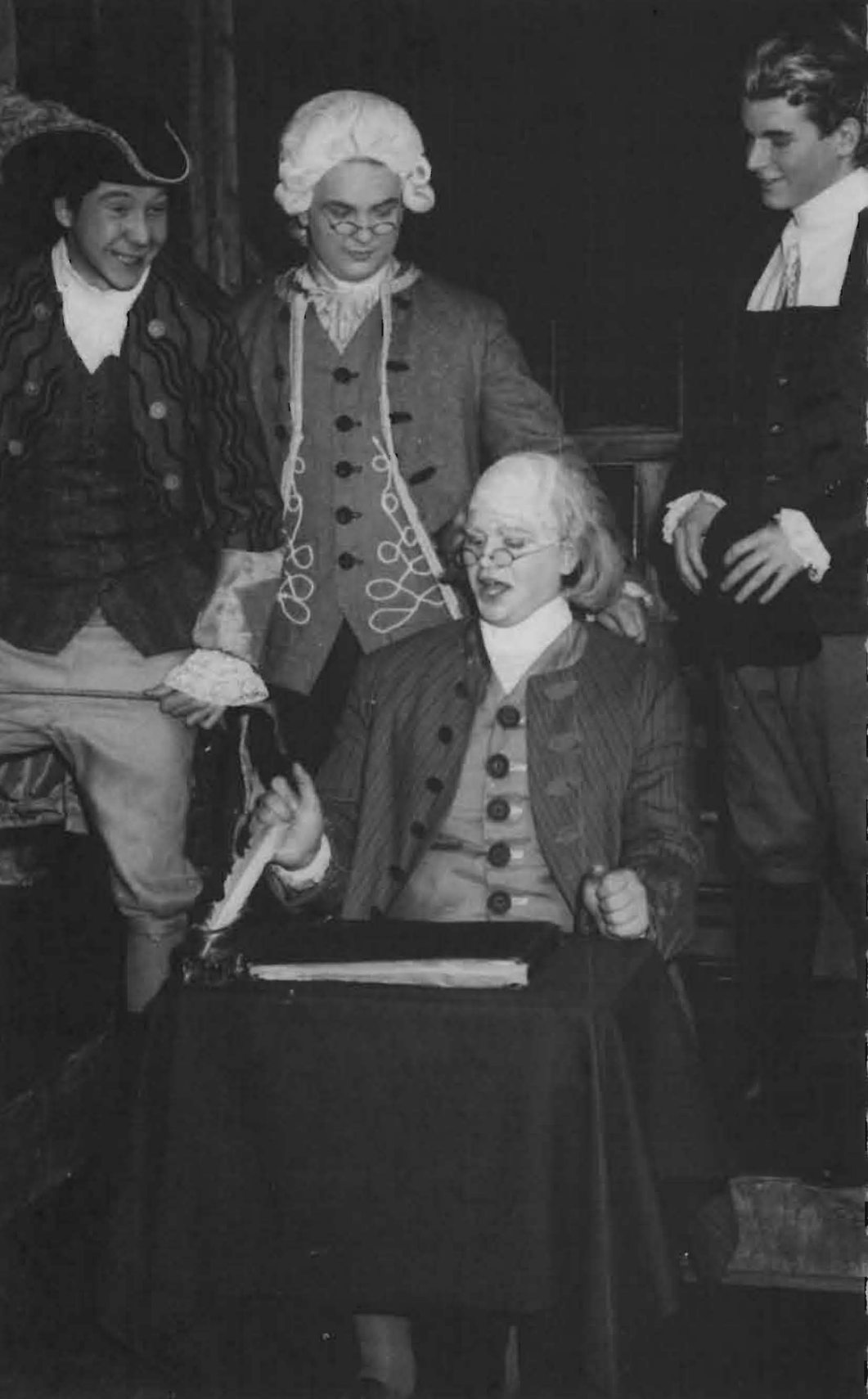
(Major GPA based on life science and zoology courses only.)

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, 2010, 3200, 3400	12
Zoology 1010, 2100, 2200, 3100, 3300, 3700	23
	—
Total	55 sem. hrs.

(Major GPA based on life science and zoology courses only.)



VIII. GRADUATE DEGREE PROGRAMS

GRADUATE STUDY

DEGREES

The University offers on the fifth-year level the master's degrees: Master of Arts (M.A.); Master of Science (M.S.); Master of Business Administration (M.B.A.); Master of Science in Library Science (M.S.L.S.); and Master of Science in Education (M.S. in Ed.). The Specialist in Education (Ed.S.) degree is offered on the sixth-year level.

GRADUATE DEGREE PROGRAM REQUIREMENTS

For current and detailed descriptions of the various graduate programs offered at Eastern Illinois University, see the *Graduate Catalog*. Catalogs, application blanks, and other materials may be obtained from the Dean of the Graduate School.

OUTLINE OF PROCEDURES FOR EARNING A DEGREE

There are several essential administrative steps that students must accomplish through the Graduate Dean's Office and the major department to receive a graduate degree at Eastern Illinois University. They must:

1. Gain admission to graduate course work as a regular status graduate. See Admission to Graduate Courses below.
2. Obtain written approval of a study program from the faculty of the department in which they plan their major study. The "faculty" of a department is represented by an assigned advisor and a department chairman. See the *Graduate Catalog*.
3. Apply for graduation near the completion of their studies but with sufficient lead time to allow the major department and the Graduate Dean's Office to review and collect all credits and other documents for certifying the degree. Students who do not complete their application for graduation prior to the tenth calendar day of their final term will not graduate that term. See the *Graduate Catalog*.
4. Successfully complete all requirements for graduation. See the *Graduate Catalog*. Students should consult with their advisors to assure that all papers, abstracts, exams and incomplete grades ('E') are finalized in time for graduation. Also see the appropriate sections on degrees (M.A., M.S., etc.).

Note that the final responsibility for completing all requirements for graduation lies with the student. A student seeking help should consult his advisor, the chairman of the major department, or the Graduate Dean.

ADMISSION TO GRADUATE COURSES

Although students may be admitted to take graduate courses on a non-degree status, those who wish to complete a graduate degree at Eastern Illinois University must seek and attain admission to graduate coursework as a regular status graduate student before they may complete the remaining sequence of steps necessary for graduation. Regular status should be attained prior to completion of 18 semester hours of graduate work.

Admission to graduate coursework via regular status or any alternative is granted only after official evidence of a standard baccalaureate degree from an accredited college is presented. Transcripts certifying the completion of a bachelor's degree should be sent directly from the Registrar's Office of the school conferring the degree to the Eastern Illinois University Graduate School Office. Transcripts should not be hand carried by the student. In addition, students seeking admission to graduate courses should acquire and complete an application form. Forms are available in the Graduate Dean's Office or from the instructors of Eastern Illinois University's off-campus courses. Students who have not been enrolled in consecutive Fall and Spring terms (that is, those who attend summers only or who drop out for either fall or spring term) must re-apply for admission to graduate courses in the Records Office each time they register for graduate coursework at Eastern Illinois University.

Students may be granted admission to courses under one of the following plans:

Regular Status

Regular status is prerequisite to gaining official approval of a graduate study plan. To attain regular status, a student must fulfill one of the sets of criteria given below and be accepted by the department in which the student plans to major.

1. Present an official undergraduate transcript from an accredited United States college or university which certifies completion of the baccalaureate degree with a grade point average of at least 2.50 on a 4.0 scale and a valid documentation of a score on the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT) or the General Management Aptitude Test (GMAT).
2. Present an official undergraduate transcript which certifies completion of the baccalaureate degree from an accredited United States college or university and valid documentation of an acceptable score on the appropriate test: GRE (1000) or the MAT (50) or the GMAT (450).
3. Present an official undergraduate transcript or other valid documents certifying completion of a baccalaureate degree and take the GRE, MAT, or GMAT, and complete 12 semester hours of graduate course work at Eastern Illinois University as a non-degree student with no grade below B and obtain the department's formal recommendation to regular status.

Non-Degree Status

A student who presents valid evidence of a bachelor's degree from an accredited United States institution may be allowed by the Graduate Dean's Office to take graduate courses on a non-degree basis. The University assumes that a non-degree student does not plan to declare a major or to seek a degree. However, should such a student, at a later date, apply for a degree program, he must apply for and meet admission requirements for regular status as outlined above. In such a case, graduate work completed as a non-degree student will be evaluated by the major department and the Graduate Dean's Office with no assurance that any credit earned will be applied toward the degree. Admission to take graduate courses is not to be interpreted as permission to seek a degree. Non-degree students are not assigned to a graduate faculty advisor and do not routinely receive the academic and curriculum informa-

tion and services from the Graduate Dean's Office which are received by students in degree programs.

If, for any reason, a student is ineligible for regular status, he will automatically be assigned to non-degree status. If the student does not wish to remain a non-degree student, he should inquire in the Graduate Dean's Office to determine the cause of his ineligibility for regular status.

Foreign Students

To gain admission to graduate coursework, students from foreign nations must present official evidence which satisfies the following two criteria:

1. An acceptable score on the appropriate graduate admissions examination (see below) and a formal recommendation for admission from the department chairman of the Eastern Illinois University department in which the student plans to study. Acceptable minimum scores are: GRE (1000), MAT (50), GMAT (450).

OR

An official (raised seal) transcript from an internationally accredited university which certifies the areas of courses of study and the completion of the baccalaureate degree with a 2.50 grade point average as determined by the Graduate Dean's Office and valid documentation of a score on the GRE, MAT, or GMAT.

2. An acceptable score on the Test of English as a Foreign Language (TOEFL) or citizenship in a nation whose official language is English and certification of proficiency in the English language by the student's academic department.*

* Students who have completed 24 semester hours of college credit at an accredited U.S. college or university or who have a passing grade on the Michigan Test of English as a Foreign Language may substitute valid documentation of that fact for this criterion.

Seniors at Eastern Illinois University

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 apply for permission to take graduate courses numbered below 5500 with credit which represent the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. To do so he must have a cumulative grade point average of 3.00 and obtain permission of the instructor of the course and the graduate dean. The proper application forms must be completed in the Graduate Dean's Office prior to enrolling in the graduate courses.

SCHOLARSHIPS

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 February 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 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
Historical Administration
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
Physical Education, for Education
Speech Pathology and Audiology
Technology
Technology Education
Zoology
Zoology Education

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
Instructional Media
Physical 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.

MASTER OF SCIENCE IN LIBRARY SCIENCE**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.

*Specialist degrees are often called "Sixty 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 Health Professions 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 Communication 1310.	3
Chemistry 1310 or 1300; 1315, 1410, 1415, 2430, 2435, 2440.	16
Physics (1150, 1160) OR (1350, 1360)	8
Mathematics elective.	3
Life Science 1000	3
Zoology 1010, 2100	8
Electives	13
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 Tech. 1043	3
*Mathematics 1340, 2351, 2352, 2353, 3501	17
Physics 1350, 1360, 1370, 2390, 2400	18
Humanities and Social Studies approved by advisor	12
Total	64 sem. hrs.

*Students who do not have the prerequisites for Mathematics 1340 must start with Mathematics 1320 or Mathematics 1300. See Section X.

PRE-NURSING, OPTOMETRY, PHARMACY, PHYSICAL THERAPY

These programs are administered by the Health Professions Studies Committee. They are flexible programs designed for students who desire one or two years of college work to prepare for admission to health related professional schools. Detailed information is available in the office of the Chairman, Health Professions 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 Health Professions 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, 2430, 2435, 2720	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

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
Afro-American Studies Committee
Health Professions Studies Committee
International Studies Committee
Pre-Engineering Studies Committee
Social Science Studies Committee
Journalism Studies Committee

L. A. Ringenberg, Dean

W. W. Scott
S. R. Steele
Ahmad Murad
J. R. Quivey
Leo Kelly
Walter N. Duffett
Robert E. Hennings
Frances Pollard
A. J. DiPietro
Frank S. Taylor
W. A. Butler
M. Soderberg
Clayton Ladd
V. Stoltzfus
D. B. Morlan

W. L. Thurman
Leonard Durham
L. Durham, Director
W. M. Hemmons, Chairman
R. J. Smith, Chairman
Wolfgang Schlauch, Chairman
W. M. Cloud, Chairman
Ahmad Murad, Chairman
Daniel Thornburgh, Chairman

SCHOOL OF BUSINESS

Department of Accountancy, Data Processing and Finance
Department of Business Education and Administrative Office
Management
Department of Management-Marketing

Thomas O. Jones, Dean

Arthur C. Hoffman
T. L. Elliott
John Roberts, Acting

SCHOOL OF EDUCATION

Department of Educational Psychology and Guidance
Department of Elementary and Junior High School
Education
Department of School Service Personnel
Department of Secondary Education and Foundation

H. J. Merigis, Dean

D. L. Moler
L. M. Grado
Robert C. Wiseman
H. R. Larson

SCHOOL OF FINE ARTS

Department of Art
 Department of Music
 Department of Theatre Arts

Vaughn Jaenike, Dean

John W. Linn
 Rhoderick Key
 E. G. Gabbard

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

Department of Health Education
 Department of Physical Education
 Department of Recreation
 and Leisure Studies

W. S. Lowell, Dean

J. J. Richardson
 W. F. Buckellew
 E. L. Bryden

SCHOOL OF HOME ECONOMICS

M. R. Swope, Dean

SCHOOL OF TECHNOLOGY

D. P. Lauda, Dean

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
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 the 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.

Prerequisite 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:

Su — Summer Term 1977

F — Fall Semester 1977

S — Spring Semester 1978

ACCOUNTANCY

UNDERGRADUATE COURSES

- 2000. Principles of Accounting I. (3-0-3)** Principles and practices of accounting for business organizations, business transactions, records and control, and financial statement presentation. Prerequisite: Sophomore standing.
- 2001. Principles of Accounting II. (3-0-3)** A continuation of Accountancy 2000. Measurement and reporting of operational assets, liabilities, equities and the use, interpretation and analysis of various financial reports. Prerequisite: Accountancy 2000.
- 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. 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.
- 3020. Managerial Accounting. (3-0-3)** Interpretation and uses of accounting data by management in planning and controlling business activities. Cannot be taken by accounting majors. Prerequisites: Accountancy 2000, 2001, and junior standing.
- 3041. Financial Accounting Reporting Theory I. (3-0-3)** The fundamental nature of accounting communication embraced by a study of financial statements and reports, the form of presentation, accounting terminology, current and non-current assets. Prerequisites: Accountancy 2001 and junior standing.
- 3051. Financial Accounting Reporting Theory II. (3-0-3)** A continuation of Accountancy 3041. Measurement of liabilities and stockholder's equity, the concept of the Statement of Changes in Financial Position, analysis of financial statements, problems with accounting changes, errors, estimates and income determination. Prerequisite: Accountancy 3041.
- 3600. Information Systems and Cost Accounting I. (3-0-3)** A systems theory approach to cost and managerial concepts and techniques augmented by computer applications. Topics covered include systems and measurement theories, feedback systems for analyses of cost behavior, relevant costs, flexible budgets, standard cost systems, forecasting and cost allocation techniques. Prerequisite: Accountancy 2001 and junior standing.
- 3701. Governmental Accounting. (2-0-2)** Special nature of accounting for governmental and institutional economic units. Budgets, fund accounting characteristics, cost accounting systems and analysis. Prerequisites: Accountancy 2001 and junior standing.
- 4050. Advanced Accounting and Consolidations. (3-0-3)** Financial accounting measurement, partnerships, international operations, consignments, installment sales, fiduciaries, and accounting for various types of business combinations. Prerequisite: Accountancy 3041 or may be taken simultaneously with Accountancy 3051.
- 4600. Information Systems and Cost Accounting II. (3-0-3)** A continuation of Accountancy 3600. Topics covered include capital budgeting, unit costing, joint product and by-product costs, learning curves, system design for information and control including EDP systems, decision tables and flowcharts. Prerequisites: Accountancy 3041 and 3600.
- 4610. Federal Income Tax. (3-0-3)** Tax accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and concepts. Prerequisite: Accountancy 2001 and junior standing.
- 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 3051, 4050, 4600, and 4610.
- 4740. Independent Study. (Arr.-Arr.-1 to 4)** A self-study research course. The student will be assigned material from accountancy and other appropriate literature in cooperation with the faculty member directing the research. Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average, permission of the chairman of the department and acceptance by the faculty member recommended by the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Profit Planning and Control. (3-0-3) F.** Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Students will be involved in budgeting. Prerequisite: Accountancy 3600 or 3020.
- 4850. Auditing. (4-0-4)** Theory and practice of the examination of financial statements for the purpose of establishing and expressing an opinion as to their reliability. Includes audit of EDP systems, statistical sampling techniques and the auditor's legal liability. Prerequisites: Accountancy 3051, 4050, and 4600.
- 4900. Advanced Federal Tax. (3-0-3)** A continuation of Accountancy 4610, with emphasis on underlying principles and concepts in the income tax laws, and the tax consequences of alternatives. Emphasis on partnership, corporation, and fiduciary tax problems. Gift, estate, and inheritance taxes. Corporate tax research is included. Prerequisite: Accountancy 4610.
- 4950. Internship in Accounting. (Arr.-Arr.-1 to 8)** On-the-job experience in public, industrial or governmental accounting in an approved firm. Prerequisite: Permission of the chairman of the department and acceptance of the study by a business firm.
- 4980. Current Issues in Accounting and Auditing. (2-0-2)** A study of current pronouncements and proposals, the pros and cons. Special studies in accounting and auditing research in other countries with emphasis on significant differences. Prerequisite: Accountancy 4850 or permission of the instructor.

AFRO-AMERICAN STUDIES**UNDERGRADUATE COURSES**

- 2000. Introduction to the Afro-American Experience. (3-0-3) F, S.** Introduction to the study of Afro-Americans in the U.S. society. A broad overview of the aspects of the black individual's existence in America with relationship to the arts and to the major social ideas and institutions. The effects of this relationship are investigated through relevant readings.

ANTHROPOLOGY**UNDERGRADUATE COURSES**

- 2730. Introduction to Cultural Anthropology. (3-0-3)** Study of world cultures, including the study of religion, mythology, kinship, marriage, political and economic systems in western and non-western societies, and relationships between cultures and their environments.
- 2742. Introduction to Physical Anthropology and Archaeology. (3-0-3)** Study of the physical and cultural evolution of man, including the study of fossil man and variations in physical features of modern human populations; development of tools and technology; origins of agriculture and development of early civilizations.
- 3602. Peoples and Cultures of South America. (3-0-3)** Study of selected South American cultures; their religious, mythologies, political and economic systems. Includes the pre-Columbian background of South American cultures and their status in the modern world. Prerequisite: Anthropology 2730 or permission of the instructor.
- 3606. Magic and Religion in Pre-literate Societies. (3-0-3) S.** A world-wide survey of ideas and beliefs regarding supernatural beings and agents. Special attention will be given to totemism,

ancestor worship, reverence for impersonal powers, witchcraft, sorcery, spirit possession and magic. Prerequisite: Anthropology 2730 or permission of the instructor.

- 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 permission of the instructor.
- 3680. Ancient Indians of the Midwest. (3-0-3)** Reconstruction of ancient Midwestern Indian cultures through the study of archaeological remains. Prerequisite: Anthropology 2730, 2742, or permission of the instructor.
- 3691. North American Indians. (3-0-3)** Study of the cultures of North American Indians, including the study of religious and ceremonial systems, political systems, patterns of warfare and adaptations to environments, and current status of North American Indians. Prerequisite: Anthropology 2730 or permission of the instructor.
- 3701. Feuds, Raids and War. (3-0-3) F.** A comparative study of armed conflict in human cultures, simple and complex, ancient and modern, peaceful and warlike. Effects of war on environment and on cultural institutions. Discussion of theories concerning causes of war. Prerequisite: Anthropology 2730 or permission of the instructor.
- 3712. Archaeology of Prehistoric Civilizations. (3-0-3) F.** Development of economic and political systems, religion, art, urbanism. Study of methods which archaeologists use to reconstruct complex cultures of the past. Prerequisite: Anthropology 2730 or 2742 or permission of the instructor.

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.

One piece of art work by each graduate student shall be retained by the Department of Art to become part of its permanent collection.

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 technology education; or major in elementary education, or junior high school education curriculum with Field II in art.
- 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 technology education and industrial technology majors, and Junior High School curricula with Field II in Art.
- 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 2651.
- 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.
- 2001.** (See Fine Arts 2001)
- 2002 (3002).** (See Fine Arts 2002)

- 2003.** (See Fine Arts 2003)
- 2011. Art Orientation. (1-0-1)** An introduction and preparation for a professional career in a number of fields of art.
- 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.
- 2110. Advanced Design. (0-6-3)** S. Advanced studio composition with media options. Open only to art majors and minors as an art elective. Prerequisite: Art 1110.
- 2250. Ceramics I. (0-6-3)** Introduction to various hand building techniques, decorative methods, firing processes and use of the potter's wheel. Prerequisites: Art 1000 and 1110 for art majors and minors only; or Art 1650 for Junior High School curriculum with Field II in art.
- 2300 (3300). Afro-American Art. (3-0-3)** Su, F. Contribution of the Black people to the art of the western world.
- 2340 (3340). General Crafts. (0-6-3)** General course in crafts with emphasis on problems in varied media; mosaic, wood, glass, block printing, batik, macrame. Not open to art majors.
- 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. Prerequisite: Art 1650 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 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.
- 2651 (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.
- 2652 (3602). Art in Past Cultures. (3-0-3)** Comparative study of subject, form and content in art of past cultures as it related to purpose and style. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
- 2653 (3603). Twentieth Century Art Forms. (3-0-3)** Origins and developments in Twentieth Century art. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.
- 2700. Introduction to Jewelry and Silversmithing. (0-6-3)** Fundamental techniques in the constructive and decorative processes of jewelry creation with various metals.
- 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 1650.
- 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.
- 3011. Exhibition Techniques. (1-0-1)** Organization and presentation of the portfolio; Junior-Senior Exhibition and professional credentials. Prerequisite: Art 2011. Required of all art majors, except art history, and in case of a transfer student may be taken concurrently with Art 2011.
- 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)** Su, S. A painting course in transparent media. Prerequisite: Art 2050, or Junior High School curriculum with Field II in art.
- 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.
- 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.
- 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.
- 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 2601 or Art 2651.
- 3640. Medieval Art. (3-0-3)** F. Arts of the Early Christian, Byzantine, Early Medieval, Romanesque and Gothic periods. Prerequisites: Art majors, Art 2601 or Art 2651.
- 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 2651.
- 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 2651.
- 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 2651.
- 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 2651.
- 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 2651.
- 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. Textile Design. (0-6-3)** Pattern design principles as they apply to historical and contemporary textiles. Studio experiences may include work in batik, block printing, crochet, macrame, silk screen, and stitchery. Required in art education option. Prerequisite: Art 1110 or 1650.
- 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. May be taken twice for credit.
- 4580. Printmaking III. (0-6-3)** Individual selection of printmaking processes and problems. Prerequisite: Art 3570.
- 4701. Advanced Metalsmithing I. (0-6-3)** Problems in casting, chasing, repoussé. Introduction to "Dutch, English, and non-resistant" raising; forming of seamed holloware; 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

- 4765. Contemporary American Painting and Sculpture. (3-0-3)** S. Study of major American artists and tendencies that have developed since 1947.
- 4790. Problems in Art History and Criticism. (2-0-2)** Individual studies and directed research in selected areas of art history. Prerequisite: Art majors and minors only.
- 4798. Introduction of Asiatic Art. (3-0-3)** A survey of Asiatic Art emphasizing: Early Asiatic cultures; the influence of Buddhist art and thought; the rise of national styles in China, India, Japan, Korea, etc. Required of art history majors.
- 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 print-makers. 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, 5611. Advanced Drawing. (3 each course)** Development of personal expression in drawing. 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. May be taken twice for credit.
- 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.

ARTS AND SCIENCES

UNDERGRADUATE COURSES

- 2100. The Ascent of Man. (2-0-2) F, S.** A survey of the biological and cultural evolution of man/woman. Credit applies to the general education distribution requirements: one hour to humanities and one hour to mathematics/science.
- 3001. The Survival of Humanity: Crisis in Energy, Food, and Population. (3-0-3) S.** The world-wide problems of energy, food and population examined from the perspectives of the natural and social sciences, with related ethical issues posed for student discussion and debate.
- 3103. Humanities. (Arr.-Arr.-3) Su.** Topics to be announced. Recommended for partial fulfillment of the humanities requirement.
- 3203. Social Studies. (Arr.-Arr.-3) Su.** Topics to be announced. Recommended for partial fulfillment of the social studies requirement.
- 3303. Mathematics-Science. (Arr.-Arr.-3) Su.** Topics to be announced. Recommended for partial fulfillment of the mathematics-science requirement.
- 3750. Summer Studies in Europe. *This is not a course.*** This entry refers to a group of courses. See 3750 under economics, French, German, Spanish, and history. Six weeks of study in a European nation. Study of the cultural, intellectual, economic and political aspects of the nation. Registration is handled by the Director of Continuing Education. Each participant must register for six semester hours of work from these courses.
- 3990. Summer Studies in Ireland and Britain. *This is not a course.*** This entry refers to a group of independent study courses. See 3990 under economics, English, history, political science, psychology, sociology, speech-communication. Six weeks of residence in Ireland or Britain is required. Registration is handled by the Director of Continuing Education.

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. (0-4-2) Su, S.** The recognition and identification of common local wild and cultivated seed plants. Prerequisite: Botany 1010.
- 2290. Morphology of Lower Plants. (1-4-3) F, S.** The classification, structure, life-history, and importance of the algae and fungi. Prerequisite: Botany 1010.
- 2300. Morphology of Higher Plants. (1-4-3) F, S.** The classification, structure, life-history, and importance of the bryophytes and vascular plants. Prerequisite: Botany 1010.
- 2320. Economic Botany. (2-0-2) F, S.** 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 3300. Not to count toward a botany major; designed primarily for students in home economics, elementary and junior high school curricula.

- 2503. Tropical Botany. (Arr.-Arr.-3) (Omitted 1977-78).** (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.
- 3300. Bacteriology. (2-4-4)** The basic principles and laboratory procedures for the study of bacteria. Prerequisites: Seven semester hours of biological sciences and eight semester hours of chemistry.
- 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 and physiological ecology. Prerequisites: Botany 1010 and one year of chemistry.
- 4362. Mycology. (1-4-3) S.** The structure, classification, life-history, and economic importance of the fungi. Prerequisite: Botany 2290.
- 4532. Plant Microtechnique. (1-4-3) F.** The basic principles and laboratory techniques for the preparation of plant material for microscopic study. Prerequisite: Botany 1010.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Lichens. (0-4-2) F.** The structure, identification, and importance of lichens. Prerequisite: Botany 2290.
- 4801. Systematic Botany. (1-4-3) F.** The classification and characteristics of the common families of flowering plants. Prerequisites: Botany 1010 and Botany 1022.
- 4811 (4611). Plant Ecology. (1-4-3) F.** The study of the structure, successional patterns, and investigative techniques of plant communities. Prerequisite: Two years of biological sciences.
- 4851. Plant Anatomy. (1-4-3) 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.** The structure, classification, life-history, and economic importance of the algae. Prerequisite: Botany 2290.
- 4901. Plant Pathology. (1-4-3) F.** 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) S.** The study of factors influencing the distribution of North American plants. Prerequisite: Botany 4811.
- 5222 (5602). Cytotaxonomy. (5) F.** The structure and function of chromosomes and their relationship to the evolution and taxonomy of seed plants. Prerequisites: Life Science 3200; and Botany 4801.

- 5321. Bryology. (4) F.** The structure, identification, life-history, and importance of the mosses and liverworts. Prerequisite: Botany 2300.
- 5342. Environmental Bacteriology. (3) S.** Techniques in the study of the bacteriology of air, water, sewage treatment, soil, and foods. Prerequisite: Botany 3300.
- 5351. Advanced Bacteriology. (2) F.** Aspects of bacterial cytology, physiology, and genetics. Prerequisites: Chemistry 2430, and Botany 3300.
- 5362. Fungi I, Phycomycetes. (4) S.** The structure, identification, and importance of the lower fungi. Prerequisite: Botany 2290; Botany 3300 recommended.
- 5371. Fungi II, Ascomycetes and Basidiomycetes. (4) F.** The structure, identification, and importance of the higher fungi. Prerequisite: Botany 2290.
- 5452. Ethnobotany. (3) S.** The basic principles of the relationships of plants and man. Prerequisites: Botany 1010 and 2320.
- 5472. Advanced Plant Physiology I, Inorganic Nutrition. (4) F.** 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) S.** The principles of photosynthesis, respiration, and organic translocation. Prerequisites: Botany 3541 and Chemistry 2430; biochemistry recommended.
- 5611. Advanced Plant Ecology. (5) S.** The laboratory analysis of soils and vegetation; microenvironmental measurements and physiological procedures used in ecological studies. Prerequisite: Botany 4811.
- 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 ADMINISTRATION

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.)

- 5005 (Accountancy 5300). Quantitative Analysis. (3) F.** Designed to provide students with skills in quantitative techniques necessary for advanced work in functional areas of business administration.
- 5100 (Management 5900). Business Research Methods. (3) 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.
- 5205 (Management 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.
- 5255 (Management 5350). Manpower Management. (3) F.** A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management.

- 5305 (Management 5310). Communication Analysis. (3) S.** Analysis of the functions, planning, psychology, and the organization of selected types of written and oral business communications.
- 5355 (Marketing 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.
- 5415 (Marketing 5335 (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.
- 5590 (Accountancy 5620). Operations Research. (3) S.** Principles and methods of operations research: topics in linear programming; PERT, inventory models, queuing theory, simulations, and probability theory. Prerequisite: Business Administration 5005 or Mathematics 2110.
- 5605 (Accountancy 5600). Managerial Accounting Control. (3) F.** A case approach for analyzing management control problems. Prerequisite: Accountancy 2001.
- 5640 (Finance 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. Prerequisites: Finance 3710 and Management 2810.
- 5660 (Management 5330). Operations Management. (3) F.** An examination of operating problems from the standpoint of the production executive. Prerequisite: Management 3010.
- 5670 (Data Processing 5320). Management Information Systems. (3)** An examination of managerial problems related to computer-based information systems. Within the context of systems theory and control theory, the student examines critical areas of design, development and analysis of management information systems. Prerequisites: Data Processing 2250, 2300 or 2310.
- 5805 (Accountancy 5800). Seminar in Accounting. (3) S.** An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accountancy 2001.
- 5815 (Marketing 5810). Seminar in Marketing. (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.
- 5840 (Finance 5830). Seminar in Finance. (3) S.** A macro approach; the student is responsible for integrating macro economic and financial information. Includes interviewing a financial decision maker. Prerequisite: Business Administration 5640.
- 5860 (Management 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.
- 5890 (Management 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.
- 5950. Thesis. (3 to 6)** The development of the method of attack and the execution of a formal research study. *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 cooperation with an assigned instructor in a general or specific area. *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 three semesters of typewriting instruction.
1240. **Shorthand Theory. (3-1-3) F, S.** Introduction to shorthand theory. 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 three semesters of shorthand instruction.
- 1420 (Management 1420). **Survey of Business Principles. (3-0-3)** The business firm in the social and legal framework of society, its responsibility and contributions to society.
- 2010 (Management 2010). **Business Communications. (3-0-3)** Practice in formulation and communication of business information, oral and written. Prerequisite: Business Education 1110 or equivalent.
2110. **Office Production Practicum. (3-Arr.-3) F, S.** Office production typewriting to meet business standards. Prerequisite: Business Education 1120 or equivalent.
2240. **Advanced Shorthand/Transcription. (3-Arr.-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) 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 personal and 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.
3300. **Personal Financial Investment. (2-0-2)** Comparative study of investment procedures and opportunities for the individual and family, including savings, insurance, securities, real estate, and estate planning.
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.** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the basic business subjects. Prerequisite: Business Education 3400 or concurrently with 3400.
3420. **Shorthand Methods. (2-0-2) F.** Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the secretarial business subjects. Prerequisites: Business Education 1250 or equivalent and 3400 or concurrently with 3400.

- 3430. Accounting Methods. (2-0-2) 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 or concurrently with 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 or concurrently with 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.
- 4010. CPS Problems I. (2-0-2)** Review and study of problems appropriate to preparation for Parts IV, V, and VI of the examination for the Certified Professional Secretary rating, including accounting, mathematics, communications, and office procedures. Prerequisite: Senior standing in a School of Business program.
- 4020. CPS Problems II. (2-0-2)** Review and study of problems appropriate to preparation for Parts I, II, and III of the examination for the Certified Professional Secretary rating, including business law, economics and management, and environmental relationships. Prerequisite: Senior standing in a School of Business program.
- 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) F, S.** Duties and responsibilities of the office manager and supervisor.
- 4770 (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.
- 4920. Organization and Operation of Vocational Business Education Programs. (3-0-3) F.** 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) 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 Technology Education. 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 Technology Education. 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 Technology Education. A student may take the 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 Technology Education. A student may take the 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 Technology Education. A student may take the course for credit in only one of the departments.
- 5300 (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.
- 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.
- 5800. Improvement of Instruction in Office Education. (3)** Offered on demand. May be taken twice for credit. Methods and techniques of teaching; instructional media, materials, and equipment; research significant to the teaching of office education subjects.
- 5810. Improvement of Instruction in Basic Business Education. (3)** Offered on demand. May be taken twice for credit. Methods and techniques of teaching; development of materials; research in the areas of basic business, accounting, and data processing.
- 5900. Research in Business Education. (3) Su, F.** 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 1050 is a one semester course covering topics of contemporary interest for the non-science oriented student. It is particularly appropriate for use in the Mathematics-Science General Education requirement.

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 1300 or 1310 and 1315, 1401 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

- 1050. Chemistry — A Non-technical View. (3-2-4) F, S.** A non-technical view of chemistry and its relationship to everyday problems, including air and water pollution, the chemistry of living systems, population, energy production and other topics. No prerequisite. No credit toward major or minor in chemistry nor for a student who has credit in a previous course in college-level chemistry.
- 1250, 1260. Chemistry for Energy Management. (2-3-3 each course) 1250 — F; 1260-S.** To be taken in sequence. A study of the fundamental principles of chemistry with emphasis on those topics of particular concern to majors in the Energy Management program. Enrollment limited to majors in the School of Business.
- 1300. Introductory Chemistry. (4-0-3)** 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) F, S.** 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. (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. (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. (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 2720:
- 2430. Principles of 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 (or 1720). Credit not granted for those with credit in Chemistry 2830.
- 2435. Principles of Organic Chemistry Laboratory. (0-3-1)** To be taken concurrently with Chemistry 2430.
- 2440. Principles of Organic Chemistry II. (2-3-3) S.** A continuation of Chemistry 2430. Prerequisite: Chemistry 2430 and 2435. Credit not granted for those with credit in Chemistry 2840.
- 2720 (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 2720.

- 2830, 2840. Organic Chemistry. (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. Prerequisites: Chemistry 1410 and 1415 or 1510 and 1515 or (1720). Credit not granted to those with credit in Chemistry 2430. Chemistry 2830 to be taken concurrently with 2835.
- 2835. Organic Chemistry Laboratory. (0-6-2) F.** Principles of experimental organic chemistry including separation, purification and synthesis of representative compounds and the use of the chemical library. Corequisite with Chemistry 2830.
- 2845. Advanced Organic Chemistry Laboratory. (0-6-2) S.** Multi-step syntheses, determination of reaction mechanisms and qualitative analysis. Prerequisite: Chemistry 2840 or simultaneous enrollment therein.
- 3000. Undergraduate Seminar. (1-0-0) F, S.** Audit only. For juniors.
- 3001. Undergraduate Seminar. (1-0-1) F, S.** A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For juniors. Prerequisite: Chemistry 3000.
- 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) F, S.** Chemistry of biologically important compounds and an introduction to their roles in living material. Prerequisites: Chemistry 2430 or 2830 and 2835. Chemistry 1720 or 2720 recommended.
- 3780 (4780). Instrumental Analysis Laboratory. (1-3-2) F.** Instrument design and analytical applications for the techniques of U.V.-visible-I.R. spectrometry, fluorescence spectrometry, flame photometry, DC-arc spectroscopy, atomic absorption spectrometry, polarography, coulometry, potentiometry and gas chromatography. Prerequisite: Chemistry 3910 or simultaneous enrollment therein.
- 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.
- 3915 (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.
- 4000. Undergraduate Seminar. (1-0-0) F, S.** Audit only. For seniors. Prerequisite: Chemistry 3001.
- 4001. Undergraduate Seminar. (1-0-1) F, S.** A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For seniors. Prerequisite: Chemistry 4000.
- 4400. Independent Study. (Arr.-Arr.-I 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

- 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.
- 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.
- 4950. Energy Science. (3-3-4). (Omitted 1977-78.)** A course taught jointly by the Departments of Chemistry and Physics and designed for majors in the Energy Management program. Topics covered include the conversion, distribution and storage of energy, concomitant environmental problems, and methods of energy conservation. (Also offered as Physics 4950.) Prerequisites: One year of college-level physics; one year of college-level chemistry; differential and integral calculus.

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.)

The following courses are available for the M.S. in Education degree in Physical Science only: Chemistry 5030, 5040, 5050, 5060, 5070.

- 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.
- 5040. Chemical Instrumentation for High School Teachers. (3) Su.** Designed for high school teachers to give them practical experience in instrument design and performance for laboratory experiments applicable to a high school chemistry course. Prerequisite: High school science teaching experience or permission of the chairman of the department. May be used for credit toward the degree M.S. in Ed. only.
- 5050. Modern Organic Chemistry for High School Teachers. (3) Su.** Designed to provide high school teachers with an understanding of the basic principles of organic chemistry. Application of these principles to organic compounds that are of commercial, biological and environmental significance will be emphasized. Prerequisite: High school science teaching experience or permission of the chairman of the department. May be used for credit toward the degree M.S. in Ed. only.
- 5060. Biological Chemistry for High School Teachers. (3) Su.** The course, designed for high school teachers, provides experience with fundamentals of chemistry of living systems. Current topics of interest to the general population, including drugs, differentiation, disease, immunity, and others, will be developed from a chemical viewpoint. Prerequisite: High school science teaching experience or permission of department chairman. May be used for credit toward the M.S. in Education degree only.
- 5070. Elements of Physical Chemistry for High School Teachers. (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.
- 5120. Theoretical Inorganic Chemistry I. (3) S.** Modern theories of chemical bonding, magnetic properties and organometallic chemistry of the transition metals. Prerequisite: Chemistry 3920.
- 5200. Chemical Thermodynamics. (3) S.** 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.

- 5250. Special Topics in Physical Chemistry.** (3) F. May be offered as a course in (1) Electrochemistry, (2) Chemical Kinetics, (3) Group Theory, or (4) Quantum Chemistry. May be repeated by student if different topic is taught. Prerequisite: Chemistry 3920.
- 5300. Molecular Spectroscopy.** (3) F. 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.
- 5460. Biochemistry.** (3) S. General biochemistry; basic mechanisms of biological processes; enzyme action; genetic and hormonal control; metabolic cycles. Prerequisite: Chemistry 2840.
- 5890. Research in Chemistry.** (1 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)

COOPERATIVE EDUCATION

UNDERGRADUATE COURSES

- 3001. Cooperative Education.** (Arr. - Arr. - 1) May be repeated for a maximum of 3 semester hours credit. An individually planned, off-campus work experience in a career-related area. Prerequisite: Sophomore standing or permission of the Coordinator of Cooperative Education. Credit for cooperative education may not be used to fulfill general education or departmental requirements. Pass-Fail only.

DATA PROCESSING

UNDERGRADUATE COURSES

- 2250 (Management 2320). Computer-Based Information Systems.** (2-0-2) An introduction to computer systems, software systems, programming techniques, inter-active terminals, data preparation methods, on-line data collection and data delivery systems. May be taken by non-business students wanting a survey of computer data processing systems.
- 2300 (Management 2300). Computer-Based Problem Solving.** (3-0-3) Business problem solving through the use of computer and high level programming language. May be taken by non-business students wanting an introduction to programming. Prerequisites: Data Processing 2250 and sophomore standing.
- 2310. Computer-Based Business Programming.** (3-0-3) Computer programming and reporting for file oriented, computerized information systems utilizing magnetic disk and tape file organization, creation, storage, retrieval, maintenance, and security with COBOL language. Prerequisites: Data Processing 2250 and sophomore standing.
- 3290 (Management 3320). Computer File Organization and Management Methods.** (3-0-3) The universal data base used with digital computer systems. Includes magnetic disk and tape file organization, creation, storage, retrieval, maintenance, and security with PL/I language. Prerequisite: Data Processing 2300 or 2310; and junior standing.

- 3310. Design of Information Systems. (3-0-3)** The analysis, design, structure, and development of computer-based information systems. Introduces the student to general system theory and the salient features of the management information system. Prerequisites: Data Processing 2300 or 2310 or permission of the instructor, Junior standing and Data Processing 2300 or 2310 or permission of the instructor.
- 3330. Real-Time Business Systems. (3-0-3)** A study of the process of integrating the computer based, file oriented business system with its on-line, visual display terminal based environment. Includes examination of real-time MIS concepts and study of data-base organizational principles. Prerequisite: Data Processing 3290.
- 4300. Data Processing Laboratory. (Arr. - Arr. -3)** Individual projects in the design, implementation and operation of hardware and/or software systems. Prerequisites: Data Processing 3310 and permission of the instructor.
- 4610 (Management 4610). Management of Data Processing. (3-0-3)** Planning, controlling, evaluating, budgeting and protecting the data processing functions, equipment, and personnel. Prerequisite: Data Processing 3310 or permission of the instructor; senior standing.
- 4730. Internship in Data Processing. (Arr.-Arr.-3 or 6 or 9 or 12 or 15)** Employment experience in a computer related function 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 coordinator of data processing. Prerequisites: Senior standing and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4810. Computer-Based Simulation Modeling. (3-0-3)** An intensive study of quantitative models as they relate to solution by digital computers. Ready-made vs. custom built; descriptive vs. optimizing; and static vs. dynamic models will be investigated. Prerequisites: Data Processing 3310 and Mathematics 2110.
- 4900 (Management 4900). CDP Problems. (3-0-3)** 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: Data Processing 3310 and 3330.

EARTH SCIENCE (Offered in the Department of Geography and Geology.)

UNDERGRADUATE COURSES

- 1410. Weather and Climate. (3-2-4) F, S.** 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) F, S.** 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) S.** 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.
- 2460. Oceanography. (3-0-3) S.** Descriptive study of the physics, chemistry, biology and geology of the world ocean.

- 3000. Elementary Earth Science I. (2-2-3) S.** Earth's motions, processes of land formation, earth's resources. (No credit if Earth Science 1420 or Geology 1400 has been taken.)
- 3410. Climatology. (2-2-3) F.** Study of the earth's energy and water balances, climate classification systems, synoptic climatology, paleoclimatology, agricultural and urban climatology, theory of jet streams. Prerequisite: Earth Science 1410 (or equivalent).

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.
- 3750. Summer Studies in Europe. (Arr.-Arr.-3 or 6) Su.** See A & S 3750. Prerequisites: Economics 2801, 2802, and permission of the chairman of the department.
- 3810. Economics of Natural Resources. (3-0-3) F.** 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) S.** 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.
- 3881. Economics of Public Utilities. (3-0-3) S.** This course entails an examination of the unique economic characteristics which set public utilities apart from other corporations, and explains why these firms are subject to regulation. 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.
- 3903. Economic Perspectives on Women. (3-0-3) On demand.** A study of the economic aspects of woman's work, responsibilities, and changing conditions. This course will not count toward credit for the major in economics.
- 3990. Summer Studies in Ireland and Britain. (Arr.-Arr.-6) Su.** Independent study in economics. Six weeks of residence in the Republic of Ireland or Britain is required. Open to juniors and seniors. (See Arts and Sciences 3990.)

- 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) (Omitted 1977-78).** 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) (Omitted 1977-78).** 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) S.** 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) F.** 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) (Omitted 1977-1978).** 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) (Omitted 1977-78).** 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) (Omitted 1977-78).** 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.
- 4861. International Economic Problems. (3-0-3) F.** 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) S.** 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) (Omitted 1977-78).** Economic conditions and development problems in various Latin American countries. Prerequisite: Economics 2802 or permission of the instructor.
- 4876. Middle East Economic Development. (3-0-3) F.** 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 or 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) S. 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.)

- 5401 (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.
- 5402 (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.
- 5421 (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.
- 5441 (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.
- 5443 (5843). Seminar in Financial Institutions.** (3) S. The functioning of major private and public financial institutions. Prerequisite: Economics 4840 or the equivalent.
- 5451 (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.
- 5461 (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.
- 5471 (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.
- 5481 (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.
- 5491 (5891). Problems in Labor Economics.** (3) F. The theory of wages and employment; the applications of the theory to contemporary problems. Prerequisite: Economics 3890 and/or permission of the instructor.
- 5493 (5893). Economics of Manpower Resources.** (3) (Omitted 1977-78). 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) Su, F.** 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) Su, S.** 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) F.** 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) Su, S.** Relates school plants to the instructional program and community resources. Prerequisite: Educational Administration 5600 or equivalent.
- 5860. School Finance. (3) Su, F.** 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)** Principles and practices of personnel administration in educational institutions. Prerequisite: Educational Administration 5600 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.
- 6210. The Junior College Movement. (2) (Omitted 1977-78).** 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)** Su, F. 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 sciences 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.
- 6870. Professional Negotiations — Collective Bargaining in Education. (3) On demand.** Designed to provide aspiring and practicing school administrators with information necessary to develop understanding and skills required for leadership in the collective bargaining process. Prerequisite: Educational Administration 5870 or permission of the chairman of the department.
- 6900. Seminar: Theory and Research in Educational Administration. (2) (On demand)** 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, 6920. Field Experience in Administration. (4 each course)** 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.
- 4741. Independent Study. (Arr.-Arr.-1-3)** May be repeated for a total of 6 semester hours credit. Prerequisite: Permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Introduction to Adult Education. (3-0-3)** Adult education today, its career opportunities, and its historical and theoretical foundations.
- 4900 (4640). History of Education in the United States. (3-0-3) (On demand).** Development of education as a part of national growth and the historical roots of modern educational issues.

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)** The sources of systematic theories, and critical analyses of some common educational slogans and ideologies. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
- 5540. History of Educational Thought. (2)** Major economic, political, religious, and scientific ideas of education constantly recurring and interacting with Western civilization. Credit applicable to Group I of the requirements for the degree M.S. in Ed.
- 5990. Independent Study. (1 to 6) On demand.** Intended to permit a student to pursue more intensely various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department.

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 Technology Education. 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 Technology Education. 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 Technology Education. A student may take the 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 Technology Education. A student may take the 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 Technology Education. A student may take the 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 and counseling programs. Prerequisite: Eight semester hours in education and psychology.
- 5730. Play Therapy. (3) Su, S.** 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.
- 5891. Career Counseling. (3) Su.** A survey and practice course devoted to specific aspects of career choice and work with individuals in a counseling situation. Prerequisites: Educational Guidance 5890 and 5720, or permission of the chairman of the department.
- 5910. Organization and Administration of Guidance and Personnel Services. (3) Su, S.** 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) Su, F.** 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) On demand.** 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) Su, S.** 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. Prerequisites: Educational Guidance 5930 and permission of the chairman of the department.
- 6910. Field Study in Guidance. (3) S.** 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. Independent Study. (Arr.-Arr.-1-3)** May be repeated for a total of six semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

- 4770. Facilitating Interpersonal Relationships. (3-0-3)** 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. (3-0-3) On demand.** 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.** 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) On demand.** 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) Su, S.** Fundamentals of statistics and their application. Prerequisite: Eight semester hours in education and psychology.
- 6780. Theories of Aptitudes and Abilities. (3) On demand.** 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

- 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. Prerequisite: Junior standing. Restricted to elementary, speech pathology and audiology, and elementary physical education majors.
- 3260. Child Development for the Nursery-Kindergarten Teacher. (3-0-3)** S, F. Factors influencing development of children 3½ to 8. Some child study techniques and their application. Prerequisite: 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)** S, F. 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.
- 4480. Reading in the Primary Grades. (3-0-3)** S, F. A course in identifying and using teaching strategies and materials in the teaching of reading in the primary grades. Particular emphasis will be placed on reading readiness, beginning reading instruction, diagnosis, evaluation, and development of reading interests. Prerequisite: Elementary Education 3280.
- 4490. Reading in the Intermediate Grades. (3-0-3)** Areas to be covered in a diagnostic framework include comprehension skills, content areas, organizing for instruction, selecting materials, and evaluation of the classroom program. Prerequisite: Elementary Education 3280 or Junior High School Education 4280.
- 4741. Independent Study. (Arr.-Arr.-1-3)** May be repeated for a total of six semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Gifted and Creative Students. (3-0-3)** Su. A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.
- 4775. Language and Language Arts in Early Childhood. (3-0-3)** Su. Normal language development in the young child. Techniques for specific language arts skills in pre-school and primary teaching. Assessment of pupil growth and achievement in language.
- 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)** 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) Su, 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) Su, S.** Factors influencing behavior of the elementary school child. Techniques to secure and use data to improve classroom teaching. Prerequisites: Elementary Education 2320 or equivalent. Eight semester hours in education and child psychology.
- 5590. Seminar in Nursery-Kindergarten Education. (3) Su, even numbered years.** An analysis of curriculum issues and problems in nursery-kindergarten education. Students will select individual problems to study.
- 5620. Remedial Reading Practicum. (3) Su, S.** 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. (3) 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) Su, F.** 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) Su, F.** 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.
- 5680. Guiding Student Teaching. (3) (On demand).** Aspects of teacher education, particularly professional laboratory experiences.
- 5690. Seminar in Elementary Science Education. (3) (On demand).** 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.
- 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: Students who intend to teach should realize that some systems require a course in the teaching of reading of candidates for English positions. See Junior High School Education 4280.

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
- 3) Composition: 2003, 3001, 3003
- 4) Literary Criticism: 2205, 3205, 3206, 3505
- 5) Comparative Literature: 2602, 2603, 2609, 3504, 3600, 3605, 3607, 3608
- 6) Medieval Period: 2801*, 4801, 4802
- 7) Renaissance: 2801*, 3801, 3802, 4803, 4804
- 8) Neo-Classical: 2801*, 2805, 4805, 4806
- 9) Nineteenth Century: 2701*, 2702*, 2802*, 2805, 2806, 3701, 3702, 3805, 3806, 4770
- 10) Twentieth Century: 2609, 2702*, 2705, 2802*, 2806, 3504, 3607, 3608, 3703, 3808
- 11) Drama: 3601, 3605, 3607, 3608, 3801, 3802
- 12) American Literature: 2701*, 2702*, 2705, 3700, 3701, 3702, 3703, 4750, 4770

*May be used for one group only.

UNDERGRADUATE COURSES

- 1000. Fundamental English. (3-0-2)** Basic review of grammar, punctuation, and spelling; writing of sentences and paragraphs. Required of students who do not meet the prerequisites for English 1001. Does not count toward graduation.
- 1001. Composition. (3-0-3)** A basic course in theme writing, designed to develop facility in matters of sentence structure, paragraph development, and organization. Prerequisite: English 1000 or proficiency in basic skills as determined by the English Department.
- 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)** 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)** Su, 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)** F, S. 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)
- 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)

- 2609. Modern World Fiction. (3-0-3) Su, F.** Major novelists, such as Conrad, Joyce, Lawrence, Ellison, Faulkner, Hemingway, Steinbeck, Mann, Kafka, Proust. (5, 10)
- 2701. American Literature I. (3-0-3) 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) 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. (Omitted 1977-78)** Richardson, Fielding, Austen, Scott, Thackeray, Dickens, and others. (8, 9)
- 2806. English Novel II. (3-0-3) S. (Omitted 1978-79)** George Eliot, the Brontes, Meredith, Hardy, Conrad, Joyce, Lawrence, and others. (9, 10)
- 2901. Structure of English. (3-0-3) A** study of the basic workings of the English language: the parts of speech, their functions in sentences, basic sentence structures and their representation by diagrams, regular pattern formations and stylistic variants, standard and nonstandard dialects, the spoken and the written language, all viewed according to traditional, structural, and transformational grammars. (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) F.** Selected critics from Plato to Johnson. (4)
- 3206. Literary Criticism II. (3-0-3) S.** Selected critics from Coleridge to the present. (4)
- 3400. Methods of Teaching English in the High School. (3-0-3)** Problems, materials, and methods for teaching English in the high school. Prerequisite: Educational Psychology 3320 or Secondary Education 3320. (No group)
- 3405. Literature in the Grades. (3-0-3) F, S.** 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)
- 3504. Film and Literature. (2-2-3) F.** Relationships between film and literature in the Twentieth Century. (5, 10)
- 3505. Literary Criticism and the Film. (2-2-3) S.** Basic questions of film theory — aesthetics and literary criticism. (4)
- 3600. The Bible as Literature. (3-0-3) F, S.** Types of literature in the Old and New Testaments. (5)
- 3601. Studies in Major Dramatists. (3-0-3) On demand.** Studies in depth of British, American, and world dramatists with no more than three dramatists examined during any one semester. Topics to be announced. May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences. (11; additional group assignment dependent upon topic)

- 3602. Studies in Major Poets. (3-0-3) On demand.** Studies in depth of British, American, and world poets, with no more than three poets examined during any one semester. Topics to be announced. May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences. (Group assignment dependent upon topic.)
- 3603. Studies in Major Novelists. (3-0-3) On demand.** Studies in depth of British, American and world novelists, with no more than three novelists examined in any one semester. Topics to be announced. May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences. (Group assignment dependent upon topic.)
- 3604 (4600). Special Topics in Literature. (3-0-3) On demand.** Special topics in British, American, or comparative literature not ordinarily treated in standard courses. Topics to be announced. (Group assignment dependent upon topic.)
- 3605. Great Plays of the Western World. (3-0-3) F.** A reading of some of the greatest dramas of all times from Aeschylus to Albee. (5, 11)
- 3607. Theory and Practice of Modern Drama I. (3-3-4) F.** Ibsen, Chekhov, Strindberg, Shaw, O'Neill, Miller, Williams. 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. (3-3-4) S.** Wilder, Brecht, Beckett, Ionesco, Genet, Pinter, Albee, Stoppard. Taught jointly by the Departments of English and Theatre Arts. Literary analysis, acting, and directing. (5, 10, 11)
- 3700. Colonial American Literature. (3-0-3) F. (Omitted 1977-78)** From the beginning through the Revolutionary period. (12)
- 3701. American Fiction to 1900. (3-0-3) F. (Omitted 1978-79)** 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) S.** 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) Su, 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) 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) F.** Representative works (excluding the novel), with primary attention to such figures as Conrad, Eliot, Joyce, Lawrence, Yeats, Thomas. (10)
- 3901. Language and Linguistics. (3-0-3) S.** A study of kinds of language and linguistic approaches; phonological, syntactic, and semantic analysis; historical, geographic, and social variation, human and non-human language systems. (2)
- 3990. Summer Studies in Ireland and Britain. (Arr.-Arr.-6)** Independent research in English. Six weeks of residence in the Republic of Ireland or Britain is required. Open to juniors and seniors. (See Arts and Sciences 3990.) (Group varies according to topic)
- 4001. Technical Writing. (3-0-3) F.** Principles and practice of technical writing with emphasis on organization, style, grammar, and usage as applied to technical writing. Practice in writing technical reports, memoranda, letters, instructions, outlines, and summaries. (No group)
- 4300. Senior Seminar. (4-0-4) F, S.** Major topics in English, American, and comparative literature and language, with topics varying each semester. Topics to be announced. 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. Topics to be announced. May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences. (Group assignment dependent upon topic.)
- 4770. The Transcendental Movement. (3-0-3) Su, F.** The New England Transcendental movement, with emphasis on Emerson and Thoreau. (9, 12)
- 4801. Middle English Literature. (3-0-3) S.** Representative non-Chaucerian English literature of the Middle Ages, in translation. (6)
- 4802. Chaucer. (3-0-3) F.** *Canterbury Tales* and other representative works. Study of the dialect out of which modern English grew. (6)
- 4803. Renaissance Literature. (3-0-3) F. (Omitted 1977-78)** Selected Sixteenth Century works (excluding the drama), with primary attention to such writers as More, Lyly, Sidney, Spenser, Marlowe, Shakespeare, Raleigh, Campion. (7)
- 4804. Seventeenth Century English Literature. (3-0-3) S. (Omitted 1978-79).** 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) Su, F. (Omitted 1978-79)** 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) S. (Omitted 1977-78)** Selected works, with primary attention to such figures as Johnson, Boswell, Goldsmith, Cowper, Gray. (8)
- 4901. History of the English Language. (3-0-3) F.** Historical geographic, and social dialects of English. (2)
- 4905. Methods of Teaching Children's Literature. (3-0-3) S. (Omitted 1977-78)** 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. (Omitted 1977-78).** 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.
- 5001. Studies in Medieval Literature. (4) Su. (Omitted 1977-78).** 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.
- 5002. Studies in Renaissance Literature. (4) Su, 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.
- 5003. Studies in Seventeenth Century British Literature. (4) S. (Omitted 1977-78)** 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 Spring 1976: The Meta-physical Poets.

- 5004. Studies in Restoration and Eighteenth Century British Literature. (4) F. (Omitted 1977-78).** 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.
- 5005. Studies in Nineteenth 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.
- 5006. Studies in Twentieth 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.
- 5007. Studies in Literary Criticism. (4) S.** 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) S. (Omitted 1977-78).** 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.
- 5009. Studies in Nineteenth 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.
- 5010. Studies in Twentieth 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.
- 5011. Studies in Linguistics. (4) S. (Omitted 1978-79).** 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) F.** A study of the aesthetic, literary, philosophical, social, and religious European background of British and American literature. The topic may vary from semester to semester.
- 5061. Special Topics in British and/or American Language and Literature. (4) On demand.** Special topics in British or American language and literature not ordinarily treated in standard courses. The topic will vary from semester to semester.
- 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.

FINANCE

UNDERGRADUATE COURSES

- 3700 (Management 3700). Capital Formation. (3-0-3)** Survey of the private and public sector of finance. Discussion of basic principles for financing business. Study of financial institutions. Prerequisites: Economics 2802, Accountancy 2001, and junior standing.
- 3710 (Management 3710). Business Financial Management. (3-0-3)** A framework for determining the efficient allocation of resources within the firm. Capital budgeting, cost of capital, and income determination are studied in the context of the business sector. Prerequisites: Finance 3700 and Management 2810.

- 3720 (Management 3720). Investments. (3-0-3)** Study of the mechanics of investment analysis. Selection of securities for portfolios with emphasis on personal investing. Prerequisite: Finance 3710 or permission of the instructor.
- 3900 (Management 3900). Risk and Insurance. (3-0-3)** Risks to which man and property are subject, including life, property, and liability insurance. Prerequisites: Finance 3710 and Management 2810.
- 4200 (Management 4200). Security Analysis and Portfolio Management. (3-0-3)** A case problem approach — including investment policies, practices and analysis of direct and indirect investments. Prerequisites: Finance 3720 and Management 2810.
- 4390 (Management 4390). Real Estate. (3-0-3)** A study of theory and practice in real estate, with social and economic implications. Prerequisites: Finance 3710 and Management 2810.
- 4730. Internship in Finance. (Arr.-Arr.-3 or 6 or 9 or 12 or 15)** Employment experience in a phase of finance for one semester, in a firm approved by the chairman of the department. Prerequisite: 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 chairman of the department. Prerequisites: Senior standing and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4820. International Finance. (3-0-3)** Financial problems of multinational corporations including the theory of capital movements, foreign exchange markets, concepts of the balance of payments mechanism, trade policy, and the functioning of the international monetary system. Prerequisites: Finance 3710, Economics 3860, and Management 2810.
- 4830 (Management 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. Prerequisites: Finance 3710 and Management 2810.

FINE ARTS

UNDERGRADUATE COURSES

- 2001. Introduction to Art, Music, and Theatre. (3-0-3) F, S.** Team-taught by members of each department, this course explains the inter-relationships between the arts, their structures and techniques, and why they are put together the way they are.
- 2002 (3002). The Fine Arts in Cultural Perspective. (3-0-3)** A team taught discussion of the arts of painting, sculpture, architecture, music, dance, drama, and literature, and the inter-relationship with cultural and social history.
- 2003. Creative Expression in the Fine Arts. (3-0-3)** The relationship of the visual arts, music and drama, and their place in the lives of human beings. Presented as a team-taught course. Reading assignments, class participation and panel discussions will be reinforced by practical experiences. Not open to students majoring in any of the fine arts.

FOREIGN LANGUAGES

CONVERSATIONAL COURSES, 1001 AND 2010

As part of its comprehensive course listings, the Department of Foreign Languages offers elementary and intermediate conversational courses in French, German, Russian, and Spanish. These are numbered 1001 and 2010 and are two semester hours each. They are *Pass-Fail only* and are not counted against the Pass-Fail option limit of courses. They may be applied to the humanities requirement. Eligibility for enrollment is as follows:

French, German, Russian, Spanish

1001. These courses are primarily for beginners. However, a student with up to but no more than one year of high school study in the language chosen may enroll. A student with any college credit in a language may not take 1001 in that language.
2010. The following may enroll: Students with one year of college credit (elementary) in the language chosen; students with at least one but no more than three years of high school study in the language chosen. Any others must have the express approval of the chairman of the department.

PLACEMENT (EXCEPT 1001 AND 2010)

A student who wishes to continue the study of a language begun in high school will ordinarily be placed in the course indicated in the chart below. However, a student with two or three years of high school study may start at a level higher than indicated with the permission of the chairman of the department. A student with two, three, or four years of high school study may enroll for credit in a course lower than indicated only with the express approval of the chairman of the department.

High School Units	French — German — Latin — Russian — Spanish
0-2 years	1101
3 years	1102
4 years	2201 or 2202 or course above 3000

FOREIGN LANGUAGES

UNDERGRADUATE COURSES

3350. **Historical Linguistics. (3-0-3) F. (Omitted 1977-78)** 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.
3400. **Methods of Teaching Foreign Language. (3-0-3) F.**

FOREIGN LANGUAGE — FRENCH

UNDERGRADUATE COURSES

1001. **Conversational French for Beginners. (2-0-2)** Pass-Fail only. Introduction to understanding and speaking everyday French. Not open to majors and minors in French. (See Conversational courses 1001 and 2010, at beginning of Foreign Languages.)

- 1101, 1102. Elementary French. (4-0-4 each course) F, S.** Emphasis on grammar, phonetics, reading, conversation; extensive use of language laboratory. Prerequisite: For French 1102, French 1101.
- 2010. Intermediate Conversational French. (2-0-2)** Pass-Fail only. Understanding and speaking French at the intermediate level. Prerequisite: French 1102 or permission of the chairman of the department. Not open to French majors. (See Conversational Courses 1001 and 2010, at beginning of Foreign Languages.)
- 2201, 2202. Intermediate French. (4-0-4 each course) F, S.** Review of grammar; exercise in composition and conversation; readings; extensive use of language laboratory. Prerequisites: 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. 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. (Omitted 1978-79)** 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. (Omitted 1977-78)** 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.
- 3750. Summer Studies in Europe. (Arr.-Arr.-3 or 6) Su.** (See Arts and Sciences 3750.) Prerequisite: French 2202 or permission of the chairman of the department.
- 4401. French Novel I. (3-0-3) S. (Omitted 1977-78).** 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) S. (Omitted 1978-79).** 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. (Omitted 1978-79).** Prerequisite: French 3301 or permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. French Drama (3-0-3) (Omitted 1978-79).** French drama from the Fifteenth Century to the present.
- 4770. French Poetry. (3-0-3) F. (Omitted 1977-78).**
- 4810. French Advanced Phonetics and Diction. (3-0-3) Su. '78. (Omitted Su. '79).**
- 4820. French Stylistics. (3-0-3) Su. '79. (Omitted Su. '78).**

FOREIGN LANGUAGE — GERMAN

UNDERGRADUATE COURSES

- 1001. Conversational German for Beginners. (2-0-2) F, S.** Pass-Fail only. Introduction to understanding and speaking everyday German. Not open to German majors and minors. (See Conversational Courses 1001 and 2010, at beginning of Foreign Languages.)
- 1101, 1102. Elementary German. (4-0-4 each course) F, S.** Emphasis on conversation, grammar, reading; extensive use of language laboratory. Prerequisite: For German 1102, German 1101.
- 2010. Intermediate Conversational German. (2-0-2) F, S.** Pass-Fail only. Understanding and speaking German at the intermediate level. Prerequisite: German 1102 or permission of the chairman of the department. Not open to German majors. (See Conversational Courses 1001 and 2010, at beginning of Foreign Languages.)
- 2201, 2202. Intermediate German. (4-0-4 each course) F, S.** 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) F. (Omitted 1978-79).** 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) (Omitted 1977-78 and 1978-79).** Prerequisite: German 2202 or permission of the chairman of the department.
- 3303. German Linguistics. (3-0-3) F. (Omitted 1977-78).** 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) S. (Omitted 1977-78).** Prerequisite: German 2202 or permission of the chairman of the department.
- 3306. German Twentieth Century Literature. (3-0-3) S. (Omitted 1978-79).** Prerequisite: German 2202 or permission of the chairman of the department.
- 3750. Summer Studies in Europe. (Arr.-Arr.-3 or 6) Su.** (See Arts and Sciences 3750.) Prerequisite: German 2202 or permission of the chairman of the department.
- 4401. German Culture and Civilization. (3-0-3) (Omitted 1977-78 and 1978-79).** Prerequisite: Three years of college German or permission of the chairman of the department.
- 4402. Topics of German Literature. (3-0-3) (Omitted 1977-78 and 1978-79).** 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) F. (Omitted 1977-78).** Prerequisite: Three years of college German or permission of the chairman of the department.
- 4760 (5512). Goethe. (3-0-3) Su 1975. (Omitted 1977-78).**
- 4770. Survey of German Literature I. (3-0-3) F. (Omitted 1977-78).** Survey of German literature in the Sixteenth Century. Prerequisite: Three years of college German or permission of the chairman of the department.
- 4780. Survey of German Literature II. (3-0-3) S. (Omitted 1978-79).** Survey of German literature from the Seventeenth to the Twentieth Century. 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) 1101-F, 1102-S.** 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) F. (Omitted 1977-78).** 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) S. (Omitted 1977-78).** 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. (Omitted 1978-79).** 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. (Omitted 1978-79).** 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 1978-79).** Selections from Catullus, Horace, Martial; Latin prosody. Prerequisite: Latin 2202 or permission of the chairman of the department.

FOREIGN LANGUAGE — RUSSIAN

UNDERGRADUATE COURSES

- 1001. Conversational Russian for Beginners. (2-0-2) F, S.** Pass-Fail only. Introduction to understanding and speaking everyday Russian. Not open to Russian minors. (See Conversational Courses 1001 and 2010, at beginning of Foreign Languages.)
- 1101, 1102. Elementary Russian. (4-0-4 each course) 1101-F; 1102-S.** Pronunciation; basic grammar; written and oral exercises; reading of simple prose; extensive use of the language laboratory. Prerequisite: For Russian 1102, Russian 1101.
- 2010. Intermediate Conversational Russian. (2-0-2) (Omitted 1977-78).** Pass-Fail only. Understanding and speaking Russian at the intermediate level. Prerequisite: Russian 1102 or permission of the chairman of the department. (See Conversational Courses 1001 and 2010 at beginning of Foreign Languages).
- 2201, 2202. Intermediate Russian. (4-0-4 each course) 2201-F; 2202-S. (Omitted 1977-78).** 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. (Omitted 1977-78).** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3303. Russian Linguistics. (3-0-3) (Omitted 1977-78).** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3304. Masterpieces of Russian Literature. (3-0-3) (Omitted 1977-78).** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3306. Russian Civilization. (3-0-3) (Omitted 1977-78).** Prerequisite: Russian 2202 or permission of the chairman of the department.
- 3360. Twentieth Century Russian Literature in English Translation. (3-0-3) (Omitted 1977-78).** Prerequisite: Junior standing or permission of the chairman of the foreign language department.

FOREIGN LANGUAGE — SPANISH

UNDERGRADUATE COURSES

- 1001. Conversational Spanish for Beginners. (2-0-2).** Pass-Fail only. Introduction to understanding and speaking everyday Spanish. Not open to Spanish majors and minors. See Conversational Courses 1001 and 2010, at beginning of Foreign Languages.)
- 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.
- 2010. Intermediate Conversational Spanish. (2-0-2) F, S.** Pass-Fail only. Understanding and speaking Spanish at the intermediate level. Prerequisite: Spanish 1102 or permission of the chairman of the department. Not open to Spanish majors. (See Conversational Courses 1001 and 2010, at beginning of Foreign Languages.)
- 2201, 2202. Intermediate Spanish. (4-0-4 each course) F, S.** 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) F.** 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. (Omitted 1977-78).** Introduction to Spanish literature from the Twelfth to Seventeenth Century. Prerequisite: Spanish 3301 or permission of the chairman of the department.
- 3304. Spanish Literature II. (3-0-3) S. (Omitted 1977-78).** Introduction to Spanish literature from the Eighteenth to Twentieth Century. Prerequisite: Spanish 3301 or permission of the chairman of the department.
- 3305. Spanish American Literature I. (3-0-3) F. (Omitted 1978-79).** 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. (Omitted 1978-79).** Introduction to Spanish American literature from 1886 to present. Prerequisite: Spanish 3301 or permission of the chairman of the department.
- 3750. Summer Studies in Europe. (Arr-Arr.-3 or 6) Su** (See Arts and Sciences, 3750.) (Prerequisite: Spanish 2202 or permission of the chairman of the department.)
- 4401. Spanish Advanced Grammar. (3-0-3) S.** Prerequisite: Three years of college Spanish or permission of the chairman of the department.

- 4402. Topics in Spanish Literature. (3-0-3) F. (Omitted 1978-79).** 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, S. (Omitted 1977-78).** Prerequisite: Three years of 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) F, S. (Omitted 1978-79).** 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. (Omitted 1978-79).** 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) F, S. (Omitted 1977-78).** 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) S. (Omitted 1977-78).** 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.

GENERAL STUDIES

- 1000. Reading and Study Improvement. (2-2-2).** Learning principles as they apply to the development of efficient study skills, emphasis on reading instruction designed to improve comprehension and rate.

GEOGRAPHY

UNDERGRADUATE COURSES

- 1500. World Geography. (3-0-3) F, S.** 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.
- 2020 (3020). Anglo-America. (3-0-3) F.** Man's occupancy of the continent of North America with topical and regional emphasis on the United States.
- 3400. Instructional Techniques. (3-0-3). On demand.** A study of the materials and methods used in the teaching of geography in the secondary school. Admission to teacher education and junior standing.
- 3520 (4520). Geography of Europe. (3-0-3). S-even numbered years.** Europe: an introduction to the physical geography and the economic development of its countries.
- 3530 (4530). Geography of Asia. (3-0-3) S-odd numbered years.** Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.
- 3540. Geography of Latin America. (3-0-3) F-odd numbered years.** A geographic analysis of the physical, cultural, economic and political interrelations of Mexico, the West Indian Islands, and the nations of Central and South America.

- 3580 (4780). Techniques in Geographic Research. (3-0-3) F-even numbered years.** An introduction to selected techniques in geographic research. Emphasis is accorded to statistical, bibliographic, interview methods and in research and writing.
- 3600. Economic Geography. (3-0-3) F.** An examination of world industries and the areal significance of economic activities with emphasis on the United States.
- 3620. Agricultural Geography. (3-0-3) F-even numbered years.** 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) F-odd numbered years.** A systematic treatment of the spatial characteristics of man's culture.
- 3700 (4700). Historical Geography of the United States. (3-0-3) S-odd numbered years.** Focuses on reconstructing past geographies of the United States.
- 3720. Geography of Illinois and the American Midwest. (3-0-3) F-odd numbered years.** 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) S-even numbered years.** Analysis of world population including demographic characteristics, growth rates and distributional patterns.
- 3800. Cartography. (2-4-4) F, S.** Instruction and laboratory practice in compiling, designing and drafting of maps.
- 3810. Field Techniques and Problems. (2-4-4) S-odd numbered years.** Instruction and experience in designing and conducting geographical field research.
- 3870. Conservation of Natural Resources. (3-0-3) F, S.** Geographical approach to the maintenance of a balanced ecology.
- 3950. Seminar. (3-0-3) F, S.** Topic to be announced in printed schedule. May be taken more than once.
- 4710. Political Geography. (3-0-3) S-odd numbered years.** 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) S.** An analytical approach to the origin, development, structure, functions and problems of urban areas.
- 4770. Development of Geographic Thought. (3-0-3) S-even numbered years.** Analysis of the historical development of basic themes of geography. Emphasis on modern thought.
- 4800. Advanced Cartography. (2-4-4) S-odd numbered years.** The analysis and reproduction of maps and aerial photographs. Prerequisites: Mathematics 1310 or equivalent and Geography 3800.

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) F, S.** Development of major structural segments of Earth's crust; fossil record of life; age relations among rock units. Field trip.
- 2440. Mineralogy. (1-4-3) F.** A study of minerals with emphasis on crystallography, genesis, association, and classification. Prerequisites: Geology 1400 and one course in chemistry.
- 3040. Modern Global Geoscience. (2-2-3) F.** Modern geoscience and physical oceanography, origin of present-day continents and ocean basins, interpretation of earth interior.
- 3430. Structural Geology. (2-2-3) S.** 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) S.** 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) S.** Physical and chemical properties of rocks, their origin, classification and geologic distribution. Field trip. Prerequisite: Geology 1400.
- 3460. Economic Geology. (2-2-3) F.** 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) F, S.** 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.
- 3480. Geology of Energy Resources. (2-2-3). F.** Introduction to the geology of fossil fuels, including petroleum, natural gas, coal, oil shale, and tar sands. Also includes geology of nuclear fuels, geothermal areas, and an introduction to methods of exploration of energy resources.
- 3520. Summer Field Camp. (Arr.-Arr.-6) Su.** Individual and group problem solving by application of field methods and techniques, including plane table mapping and air photo interpretation. Six weeks of field study required. Contact Continuing Education Director concerning location, fees, and registration. Prerequisite: One year of Earth Science or introductory geology or permission of the chairman of the department.
- 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) S.** Sequence and correlation of layered rocks; sedimentary facies; laboratory analysis of sediments; properties of sedimentary rocks; environmental interpretation. Field trip. Prerequisite: Geology 2430.
- 4490. Invertebrate Paleontology. (2-2-3) F.** 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.
- 3001. Cardio Pulmonary Resuscitation (CPR) Instructor's Course. (1-1-1)** A preparation of instructors for the teaching of Basic Cardiac Life Support (BCLS) as identified by the Illinois Heart Association. Prerequisite: Permission of the instructor.
- 3010. Public Health Nursing. (3-0-3) (On demand).** 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. (3-0-3)** 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. (3-0-3)** 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.
- 3750. Health Care Delivery Systems. (3-0-3)** 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.
- 4043, 4045, 4048. School Nurse Internship. (Arr.-Arr.-4043-3; 4045-5; 4048-8)** An internship designed according to the Illinois Office of Education's criteria for certification as a school nurse. Prerequisite: Participants must be registered professional nurses licensed to practice in Illinois. The intern may take one or more courses at the same time.
- 4741. Independent Study. (Arr.-Arr.-1-6)** An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected topics 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) Su, 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 first 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) On demand.** 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 Technology Education. 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 Technology Education. 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 Technology Education. A student may take the 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 Technology Education. A student may take the 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 Technology Education. A student may take the course for credit in only one of the departments.
- 5990. Independent Study. (1 to 6)** 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.

HISTORY

UNDERGRADUATE COURSES

- 1000. Makers of the Modern World. (1-0-1) F, S.** An introduction to the study of history through biographies of major world figures.

- 1100. World Civilization to 1500. (3-0-3) F, S.** The contributions of major civilizations from the beginning of recorded time to the dawn of the modern age.
- 1200. World Civilization since 1500. (3-0-3) F, S.** The political, social, and cultural forces which have shaped modern world civilizations since the beginning of European expansion. Course does not count toward the history major or teacher certification minor.
- 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.
- 3000 (1510). Europe from the Renaissance to Waterloo. (3-0-3) F, S.** A survey of major European developments between 1300 and 1815.
- 3005 (1520). Europe since Napoleon. (3-0-3) F, S.** Survey of European history from the Congress of Vienna to the present.
- 3030. Intellectual History of the United States. (3-0-3) S.** Study of the development of ideas and concepts in America from the day of settlement to the present.
- 3040. Studies in the Social History of the United States. (3-0-3) F.** Survey of social changes which have affected American culture. Course topics may vary according to the instructor. May be taken only once for credit.
- 3050. The Old South. (3-0-3) F-odd-numbered years.** 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-even-numbered years.** 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 East of the Mississippi. (3-0-3) F-even-numbered years.** Study of the westward movement from discovery and early settlement to the days of Jackson.
- 3080. History of the Trans-Mississippi Frontier. (3-0-3) S-odd-numbered years.** The development of frontier America after the Louisiana Purchase.
- 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) F.** 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) S.** 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.
- 3140. History of American Business. (3-0-3) F.** A survey of American business experience from colonial days to the present.
- 3180. History of Illinois. (3-0-3) F, S.** A history of the state from the French regime through the Civil War to the present.
- 3250. The Spanish American Heritage of the United States. (3-0-3) S-even-numbered years.** An account of the continuous and important part played by Spaniards and Spanish Americans in the history of the United States.
- 3260. Latin American History. (3-0-3) F-even-numbered years.** Survey of Latin American development with an emphasis upon events since independence.

- 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.
- 3500. Research Techniques and Sources. (1-4-3) F, S.** Instruction in the collection, organization, and use of archival data.
- 3510. Ancient History. (3-0-3) F, S.** 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) F.** 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) F-even-numbered years.** The conquests, law and customs, art and sciences of the Moslem world, including Spain, Persia, the Turks, and the Sudan.
- 3550. Spanish History. (3-0-3) S-odd-numbered years.** Crucial Periods: Moorish and Reconquest Kingdoms 711-1492, Empire and Splendor 1492-1600, 20th Century.
- 3600. History of China. (3-0-3) F.** Development of China from the Shang Dynasty down to the conflict with Western powers, Maoism, and the cultural revolution.
- 3610. Czarist Russia. (3-0-3) F-even-numbered years.** History of Russia to 1800.
- 3620. Czarist and Soviet Russia. (3-0-3) S-odd-numbered years.** 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) F.** The apex and decline of European hegemony in the age of the world wars, class war, cold war and totalitarianism.
- 3740. History of World War II. (3-0-3) F, S.** A study of the background to the war, campaigns in Europe and the Pacific, and occupation policies.
- 3750. Summer Studies in Europe. (Arr.-Arr.-3 or 6) Su** (See Arts and Sciences 3750.) Prerequisite: Permission of the chairman of the department.
- 3800. Germany since 1815. (3-0-3) S-odd-numbered years.** A political, social, and cultural history of Germany since 1815 with emphasis on the 1848 Revolution, the German Empire, the World Wars, and divided Germany.
- 3990. Summer Studies in Ireland and Britain. (Arr.-Arr.-6) Su.** Independent research in history. Six weeks of residence in the Republic of Ireland or Great Britain will be required. Open to juniors and seniors.
- 4010. Colonial America from Discovery through Revolution. (3-0-3) F-odd-numbered years.** The development of American colonial institutions and their culmination in the world's first modern revolution.
- 4020. The Foundation of the American Constitutional and Political System. (3-0-3) F-even-numbered years.** Study of United States governmental institutions from the Confederation to the days of Jackson.
- 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) F, 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-odd-numbered years.** 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. Contemporary America. (3-0-3) S.** Study of major issues affecting the present generation with an emphasis upon historical causes and parallels.
- 4120. The Rise and Growth of American Cities. (3-0-3) S-even-numbered years.** Study of problems faced by urban development throughout American history.
- 4130. The History of Racism in the United States. (3-0-3) S.** A survey of the racist ideology in the United States as directed at various minority groups.
- 4150. Readings on the American Character. (3-0-3) S-even-numbered years.** Studies of the American Character and Mind, 1607 to the present.
- 4280. Latin-America and the United States. (3-0-3) F-odd-numbered years.** 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 and with permission of the chairman of the department.
- 4430. Stuart England. (3-0-3) F-odd-numbered years.** The struggles of political forces in Great Britain during the rise to world power.
- 4660. Eastern Europe from World War I to the Present. (3-0-3) S-even-numbered years.** Eastern Europe from World War I to the present.
- 4700. Europe since 1945. (3-0-3) S.** A political, social and cultural history of divided Europe since World War II.

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. Internship in Historical Administration. (Arr.-Arr.-9) F, S.** A semester's experience as an intern in a historical library, historical society, museum, archive, restoration project, or historical agency or government. Prerequisite: Permission of the chairman of the department and acceptance of the student by an appropriate historical agency. Credit not allowed for both 5000 and 5001, or for both 5000 and 5950.
- 5001. Internship in Historical Administration. (Arr.-Arr.-6) Su.** A summer term's experience as an intern in a historical library, historical society, museum, archive, restoration project, or historical agency of government. Prerequisites: Permission of the chairman of the department and acceptance of the student by an appropriate historical agency. Credit not allowed for both 5001 and 5000, or for both 5001 and 5950.
- 5010. Seminar in Historical Administration. (3) S.** Intensive study and research into special topics relating to the management of historical sites, museums, and archives.
- 5020. Seminar in Interpretation. (3) F.** The purpose, content, and communication process involved in interpreting history, by means of artifacts, building and cultural patterns.
- 5030. Seminar in Archival Methods and Editorial Practices. (3) S.** Study of the purpose, content, and organization of archival collections and of editorial techniques involved with historical materials.
- 5040. Seminar in Oral History. (2) F.** Applied study of the techniques of gathering and editing oral history.

Note: Courses numbered 5160 through 5900 may be repeated for credit under different instructors and with the approval of the department.

- 5160. Seminar in American History. (3) Su.** Intensive study of special topics in American history, to be determined by the instructor.
- 5200. Seminar in Colonial American History. (3) F-even-numbered years.** Research in topics dealing with Colonial American history.
- 5210. Seminar in Civil War and Reconstruction. (3) S-odd-numbered years.** Intensive study in topics dealing with Civil War and Reconstruction.
- 5220. Seminar in Twentieth Century America. (3) S-even-numbered years.** Intensive study in topics dealing with Twentieth Century America.
- 5300. Seminar in Afro-American History. (3) F-odd-numbered years.** Selected problems dealing with major intellectual currents and personalities in Afro-American history.
- 5310. Seminar in Social and Intellectual History. (3) S-even-numbered years.** Research in topics dealing with social and intellectual history of the United States.
- 5330. Problems in the Diplomatic History of the United States. (3) F-odd-numbered years.** Intensive reading in selected problems of United States diplomacy.
- 5400 (5600). Seminar in European History. (3) Su.** Intensive study in special topics in European history, to be determined by the instructor.
- 5460 (5660). Seminar in Twentieth Century Europe. (3) F-odd-numbered years.** Intensive study in topics dealing with Twentieth Century Europe.
- 5470 (5700). European Diplomacy, 1919-1945. (3) F-even-numbered years.** Study of interwar diplomacy with emphasis on Paris Peace Treaties, Rapallo, Locarno, Munich, Little Entente, Hitler-Stalin Pact.
- 5620. Seminar in the Middle Ages and the Renaissance. (3) F-even-numbered years.** Study and research in selected Medieval and Renaissance topics.
- 5640. Seminar in Eighteenth Century Europe. (3) S-odd-numbered years.** Intensive study in topics dealing with Eighteenth Century Europe.
- 5650. Seminar in Nineteenth Century Europe. (3) S-even-numbered years.** Intensive study in topics dealing with Nineteenth Century Europe.
- 5900. Historiography. (3) F, S.** 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/or 5990 and/or 5997.
- 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/or 5950 and/or 5997.
- 5997. Study Abroad. (3 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

HOME ECONOMICS

UNDERGRADUATE COURSES

- 1120. Foods I. (1-2-2) F, S.** A study of the guidelines important in developing desirable habits in providing the family food supply.
- 1150. Nutrition. (3-0-3) F, S.** Principles of normal human nutrition applied to various stages in life. For majors and others seeking physiological emphasis. (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) S.** A historic and current study of fashion; the production and distribution of fashion goods.
2244. **Consumer Textile Products. (2-0-2) F, S.** 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) F, S.** Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.
2270. **Family Housing. (2-0-2) F, S.** Arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.
2400. **Career Education in Home Economics. (1-0-1) F, S.** Orientation to the development of home economics as a profession and an exploration of career opportunities available for men and women.
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.
- 2831 (3831). **Women in Contemporary Society. (3-0-3) F, S.** An interdisciplinary study of the emergence of women as a viable force in contemporary society. May be used toward social studies general education requirement.
2850. **Child Development. (3-0-3)** The physical, intellectual, social, and emotional development of the pre-school child.
3120. **Experimental Foods. (1-4-3) F, 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. (3-0-3) F.** Study of human nutrition emphasizing biochemistry, physiology, and nutrition education. Prerequisite: Home Economics 1150 or equivalent.
3190. **Human Nutrition and Food Study. (2-0-2) F.** Fundamentals of nutrition applied to all ages; principles of menu planning, food buying and preparation. For non-majors only.
- 3234 (3236). **Principles of Clothing Construction. (0-6-3)** A study of basic principles of clothing processes.
- 3235 (3236). **Advanced Clothing Construction. (0-4-2)** Advanced clothing construction techniques and garment fitting. Prerequisite: Home Economics 3234, pass proficiency examination, or permission of the instructor.
3237. **Tailoring. (0-6-3) F.** Fabric selection and techniques used in the tailoring of a suit or coat. Prerequisite: Home Economics 3234, 3235, 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. (2-2-3) F, S.** A study of planning, guiding, and directing the use of human and material resources toward individual and family goal achievement.
3370. **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.

- 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.
- 3800. Family Life and Sex Education. (3-0-3) F, S.** To prepare professionals such as family service personnel, educators, and parents to work with individuals and families at various stages in the family life cycle in the area of family life and sex education. Prerequisites: Home Economics 2800 and 2850 or Health Education 3500, or permission of the instructor.
- 3820. The Family in Social Change. (2-0-2) F, 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.
- 3853. Practicum in Child Development. (1-4-3) F, S.** Supervised observation and participation in the guidance of children in the Nursery School. Prerequisite: 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, S.** 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) S-odd numbered years.** A study of the therapeutic care of a patient through the prescription of specific diets in relation to disease syndromes. Prerequisite: Home Economics 3150 or permission of the instructor.
- 4238. Principles of Pattern Design. (0-6-3) S.** Principles of designing clothing and the translation of these designs into an original pattern. Prerequisite: Home Economics 3235, 3237, 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.
- 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) F.** 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) F.** 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. (2-2-3) 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.

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 Technology Education. 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 Technology Education. 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 Technology Education. A student may take the 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 Technology Education. A student may take the 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 Technology Education. A student may take the course for credit in only one of the departments.
- 5120. Contemporary Developments in Foods. (3) On demand.** 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) On demand.** 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.
- 5238. Seminar in Home Economics. (3) On demand.** The study of selected subject matter areas in the field of home economics. May be taken twice for credit. Prerequisite: Permission of the instructor.
- 5360. Seminar in Clothing and Textiles. (3) On demand.** 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.

- 5450. Supervision in Home Economics. (2) F-odd-numbered years.** 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. (3) S.** Development and critical evaluation of instruments designed to measure pupil growth.
- 5900. Research Methods in Home Economics. (3) F-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 TECHNOLOGY

UNDERGRADUATE COURSES

- 1043 (Industrial Arts 1043). Engineering Graphics. (1-4-3)** Multiview, graphs, isometric and oblique projection; sectional views and dimensioning; concepts of descriptive geometry.
- 1162 (Industrial Arts 1163). AC and DC Circuits. (1-2-2)** Comprehensive study of alternating and direct current with practical laboratory application.
- 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 1300 or its equivalent.
- 3012. Metrology and Inspection Procedures. (2-0-2) S.** Applications of metrology in production manufacturing; inspection instruments and procedures. Prerequisite: 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 Technology 1043; Mathematics 1340.
- 3163. Communications Circuits and Systems. (2-2-3) S.** Electronic power supplies, audio amplifiers, transmitters and receivers. Prerequisites: Technology Education 2183.
- 3183 (Industrial Arts 2163 and 2173). Digital Electronics. (1-4-3) S.** Introduction to the study of digital electronics with emphasis on logic gates and binary memory elements. Prerequisites: Industrial Technology 1162, Technology Education 2324 or permission of the instructor.
- 3202. Surveying. (0-4-2) S.** Field work in location, elevation, and land surveys. Prerequisites: Industrial Technology 1043 or Technology Education 2114; Mathematics 1310 or its equivalent.
- 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.

- 3933. **Alternative Energy Systems. (3-0-3) S.** Study of technology and systems related to coal, oil, natural gas, nuclear, geothermal, organic wastes and solar energy, including power plant operation, pumps, turbine, generators, and related equipment.
- 4002. **Materials Testing. (0-4-2) S.** Applied analysis of mechanical and physical properties of industrial materials. Prerequisites: Technology Education 2064; Physics 1350; Mathematics 1300 or its equivalent.
- 4043. **Statistical Quality Assurance. (3-0-3) S.** Principles of total quality control; shewhart control charts; acceptance sampling; capability and reliability studies. Prerequisites: Mathematics 1300 or its equivalent; junior standing.
- 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: Technology Education 3023.
- 4274 (Industrial Arts 4163 and 4172). **Industrial Electronics. (2-4-4) F.** Study of industrial control of processes, materials, machines, energy, and information. Theory and application of electronic instrumentation devices, transducers, and elements in measuring temperature, density, level, flow, viscosity, humidity, pH and displacement. Prerequisite: Technology Education 2324 or Industrial Technology 1162 or permission of the instructor.
- 4602. **Physical Metallurgy. (0-4-2) F.** Methods of altering, controlling and determining physical properties of metals. Prerequisite: Technology Education 2064.
- 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

UNDERGRADUATE COURSES

- 2870. **Instructional Media: Public Schools. (3-0-3)** Theory, principles of use, and production of locally prepared instructional media.
- 3220. **Instructional Photography. (2-2-3)** This course is designed to introduce the classroom teacher to the use of photography in education.
- 3230. **Resources for Teachers. (3-0-3)** Examines the role of the learning resources specialist in providing resources for public school teachers.
- 3240. **Mediated Instruction for Students. (3-0-3)** The study of criteria for the selection and evaluation of all forms of learning resources, including sources of equipment and materials. Examines through field experiences and mediated programs, learning resource centers at the elementary, junior high, and high school levels.

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) F, S.** Production of locally prepared instructional materials. Materials fee, \$10.

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 Instructional Media. (3)** Photographic techniques for making materials for classroom instruction. Emphasis upon prints, color slides and large transparencies. Materials fee, \$10.
- 5230. Organization and Supervision of Instructional Media Programs. (3) Su, F.** Problems of organizing and supervising media in the individual school, district, county and/or university.
- 5300. Development and Design of Instruction. (4) S.** Development and design of instructional resources for the improvement of instruction. Prerequisites: Instructional Media 4880, 5210, 5220, or permission of the chairman of the department. Materials Fee, \$10.
- 5310. Communication and Instructional Media. (3) F, S.** 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) Su, S.** Special study on problems of production, administration, and utilization of instructional media materials in schools. Prerequisites: Instructional Media 4870, 5210, 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). S.** Motion picture photography taught through study of commercially produced educational films and individual production of a short motion picture film. 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.

- 6300. Advanced Photography in Instructional Media.** (4) S. Advanced study of black and white photography and darkroom techniques. Prerequisite: Instructional Media 5220. Materials fee, \$10.
- 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.** (3-0-3) F, S. Principles of gathering and writing news; laboratory experiences with basic news stories.
- 2102. Newswriting II.** (3-0-3) F, S. Advanced techniques of reporting; laboratory experiences with specialized news stories. Prerequisite: Journalism 2101.
- 3001. News Photography.** (1-2-2) Specialized handling of photographic work in community press media with emphasis on criteria for editorial selection, editing, layout and design. Prerequisite: Journalism 2102 or permission of the instructor.
- 3100. News Editing and Make-Up** (2-2-3) F, S. Editing the news, emphasizing copy-editing, headlines and page design. Prerequisite: Journalism 2102 or permission of the instructor.
- 3101. Communication Law — 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.
- 4100. Internship (Commercials).** (0-2-1) Actual newsroom training in preparation of news copy, wire, pictures and syndicated materials on a community press media. Prerequisite: Journalism 3101.
- 4101. Internship (Student Publication).** (0-2-1) Actual newsroom training in preparation of news copy, wire pictures and syndicated materials for *Eastern News*. Prerequisite: Journalism 3101.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Supervision of High School Publication.** (3-0-3) Su, Fall-odd-numbered years. 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, classroom management, and implications for the middle school.

- 3130. Teaching Social Studies and Language Arts in the Junior High School. (3-1-3) F.** 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) 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: Six semester hours in education and psychology.
- 4741. Independent Study. (Arr.-Arr.-1-3)** 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.)

- 5270. Reading Instruction in the Junior and Senior High School. (3) Su.** 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. Library Science 1200 does not count as part of the undergraduate minor. Junior standing is a prerequisite for Library Science courses other than Library Science 1200. The study of Library Science and Instructional 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

- 1200. Introduction to Library Use. (2-0-2)** Methods and techniques to help students learn to use libraries and library materials effectively. Open to all students.
- 4200 (3200). The School Library Media Center. (3-0-3)** The services and administration of the school library media center.
- 4300 (3300). Literature for Children. (3-0-3)** Types of resources best suited to children of grades 1 through 6. Reading and evaluation of materials.
- 4320 (3320). Literature for Young People. (3-0-3)** Types of resources best suited for adolescents. Reading and evaluation of materials.
- 4490. Observation and Practice. (1-8-3)** Practical experience in library work with special emphasis on service to the public. One seminar 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) Su, S.** 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.
- 5220. Special Libraries. (3) F.** An introduction to the management and operation of special libraries. Experiences in developing patterns of service to meet the needs of specialized user groups. Prerequisite: Library Science 4750.
- 5300. Studies in Children's Materials and Services. (3) 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) 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) F.** 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) Su, S.** 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) Su, S.** Intensive study of information sources in science and technology. Prerequisites: Library Science 4750, 4760.
- 5850. School Library Problems. (3) Su, F.** 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) 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.
- 2010 (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.
- 2150 (Zoology 3150). Heredity, Evolution and Society. (3-0-3)** The application of heredity and evolutionary principles to pertinent contemporary social problems. Prerequisite: Life Science 1000 or equivalent.
- 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.
- 3200 (Botany 3361, Zoology 3200). (2-2-3) F, S.** The fundamental principles of genetics (classical, molecular, and population) stressing applications to all organisms. 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 twelve semester hours 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 Life Science 3200. May be substituted for a three-semester-hour elective in botany or zoology in completing the requirements for a botany or zoology major.
- 4840. Advanced Genetics. (3-0-3) F.** Study of genetics on the molecular and biochemical levels, including structure, function, transmission, and regulation of the genetic material, in prokaryotes and eukaryotes. Prerequisites: Life Science 3200 and organic chemistry; biochemistry recommended.
- 4903. Study of Biotic Communities. (2-Arr.-3)** The study of selected biotic communities in Illinois and surrounding states. Prerequisites: Major in botany, zoology, or environmental biology; six semester hours in botany and six semester hours in zoology, including Botany 4811 or Zoology 4800; 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.)

- 5300. Transmission Electron Microscopy. (3) F, S.** A study of methods of preparing biological materials for transmission electron microscopy, theory of electron optic systems, mode of operation of the transmission electron microscope, and associated photomicrographic techniques. Prerequisite: Permission of the instructor.

MANAGEMENT

UNDERGRADUATE COURSES

- 2460 (3460). Business Law. (3-0-3)** Introduction to law; contracts, agency and employment; commercial paper; personal property and bailments.
- 2810 (3810). Business Statistics I. (3-0-3)** Provides a working knowledge of the statistical tools used in analyzing business problems. Prerequisites: Mathematics 2110 and 2120.
- 3010. Principles of Management. (3-0-3)** Organization fundamentals: objectives, functions, structure and operational procedure, interpersonal relationships, control and motivation systems, and communications. Prerequisite: Junior standing.
- 3340. Introduction to Organizational Theory. (3-0-3)** Introduction to human behavior in business organizations from a business management viewpoint.
- 3450. Personnel Management. (3-0-3)** Objectives, functions, and organization of a typical personnel program. Prerequisite: Management 3010.
- 3470. Business Law. (3-0-3)** Sales; partnership and corporations; real property and leases; insurance; security devices; bankruptcy; wills and estates. Prerequisite: Management 2460.
- 3550. Principles of Energy Management. (3-0-3) S.** An interdisciplinary approach as an introduction to the problems and techniques of planning, organizing and controlling the various functions related to generating energy and its effects on other environmental and social problems. Prerequisites: Accountancy 2001, Economics 2802, and junior standing.
- 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. Prerequisites: Mathematics 2110 or 2120, and junior standing.
- 3820. Business Statistics II. (3-0-3) S.** Extension of the range of topics covered in Business Statistics I. Prerequisite: Management 2810 and junior standing.
- 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.
- 3950 (4340). Operations Management. (3-0-3) F.** Management of manufacturing enterprises. Includes operations research techniques, plant locations, layout, and services. Prerequisites: Management 2810, 3010, or permission of the instructor.
- 4310. Organizational Behavior. (3-0-3)** Examination of theoretical constructs and research findings on human behavior in work organizations such as businesses, especially individual differences, dyadic relations, and small group behavior. Prerequisites: Management 3010 and 3340.
- 4320. Production Systems and Control. (3-0-3)** Designed to follow Management 3950. Meets the demands of business, particularly in the manufacturing area. Prerequisite: Management 3950.
- 4350. Methods Analysis. (3-0-3) S.** Study of the procedure and techniques involved in methods analysis. Prerequisite: Management 3950 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. Prerequisites: All core requirements for the B.S. in Business degree 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.

- 4450. Collective Bargaining. (3-0-3) F, S.** Deals with the role played by management and labor representatives in the collective bargaining process. Prerequisites: Management 2460, 3010, 4380 or permission of instructor.
- 4730. Internship in Management. (Arr.-Arr.-3 or 6 or 9 or 12 or 15)** 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 chairman 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) Su, S.** Case problems approach to the various topics in the field of business law. Prerequisite: Management 3470 or the equivalent.
- 4813. Energy and Environmental Law. (3-0-3)** A study of the interaction of state and local energy and environmental regulation involving consideration of pertinent laws, policy statements, legislative studies, scholarly treatises, administrative procedures and landmark cases. Prerequisite: Junior standing.
- 4840. Commercial Bank Management. (3-0-3) F, S.** The organization and management of commercial banks; function, departments, personnel, policies. Prerequisites: Accountancy 2001, Economics 2802, and junior standing.
- 4850. Energy Finance and Incentives. (3-0-3)** A survey of literature and other materials pertinent to public and private financing of national and regional energy capabilities as well as consideration of alternative governmental policies and incentives involved. Prerequisite: Junior standing.
- 4910. Enterprise Development (3-0-3) S.** A practical exercise in the development, initiation and management of an enterprise. May also be utilized for the reorganization or expansion of existing firms. Prerequisites: Senior or graduate standing in the School of Business. Marketing 4860 and all core requirements for the B.S. in Business degree; or permission of the instructor.
- 4920. International Business Policy and Operation. (3-0-3)** Contemporary theories and practices in management of international business firms. Prerequisites: Junior standing and Economics 3860 or permission of the instructor.

MARKETING

UNDERGRADUATE COURSES

- 3410. Current Trends in Marketing of Energy Technology. (3-0-3)** Trends, analyses, and policies of energy technology are studied as a background to viewing this topic in two ways. One, current trends in a society of scarce resources; two, how to best market these scarce resources. This course is to emphasize the closed loop which exists in the relationships of energy resource marketing as a technology for the creation of growth in the economy.
- 3470. Principles of Marketing. (3-0-3)** Marketing channels; marketing functions and institutions; methods in marketing agricultural products, raw materials and manufactured goods. Prerequisites: Economics 2802 and junior standing.
- 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 Accountancy 2000.

- 3510. Marketing Communications. (3-0-3)** Marketing communication involves all facets of selling effort. Its objectives are twofold: to stimulate demand and to expedite sales. Its function is to apply forward pressure within channels of distribution, so that goods will be distributed with greater effectiveness than a static demand and channel structure would elicit. Prerequisite: Marketing 3470.
- 3600. Energy Marketing. (3-0-3)** Study and analyses of the marketing of energy. Emphasis is given to the nature of energy markets (especially to ownership of supply, and control and regulations of marketing operations), and to the various methods of transporting energy from producer to customer. Especially important is the impact of societal value judgments and life styles on the present as well as changing methods of marketing energy. Prerequisite: Management 3550.
- 3720. Consumer Behavior. (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.
- 4470. The Management of the Sales Force. (3-0-3)** The marketing management function of directing the policies and procedures of selling organizations is analyzed with the objective of maximizing the sales and profit opportunities of the particular organization involved. Sales planning and control are an integral part of the sales executive's responsibilities. Prerequisite: Marketing 3510.
- 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.-3 or 6 or 9 or 12 or 15)** 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.-3)** 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, Management 3010 and 2810.
- 4780. Advertising Management. (3-0-3) F, S.** Application of the management functions to advertising. Prerequisites: Marketing 3510 and 3720.
- 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 2810 or its equivalent.
- 4875. Retail Management. (3-0-3)** The objective of the course is to provide a framework for analyzing internal and external environment factors which effect the firms retailing activities. Emphasis is placed on the firm's decisions and policies relating to demand analysis, spatial decisions, merchandise policies, pricing strategy, and promotion activities. Consideration is also given to retail control methods. Prerequisites: All core requirements for the B.S. in Business or permission of the instructor.
- 4876 (5350). Product Development and Brand Management. (3) S.** A study of the process of product planning and development as related to venture management. Prerequisite: All core requirements for the B.S. in the Business degree or permission of the instructor.

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.

Proficiency credit will not be allowed for courses numbered below 2000.

UNDERGRADUATE COURSES

- 1150. Mathematics for Liberal Arts Students. (3-0-3)** An elementary course designed to increase the student's understanding and appreciation of the nature and uses of mathematics. Recommended for students as partial fulfillment of the general education requirement in mathematics-science. Not open to students enrolled in programs requiring Mathematics 2110 or 2351 or 3190.
- 1220. Numeralš and Numbers I. (3-0-3) F, S.** A study of the real number system and related topics in elementary school mathematics. Restricted to students in the curriculum for elementary and junior high school teachers. Prerequisite: Placement by examination.
- 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) F, S.** 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) F, S.** Basic concepts of right triangle trigonometry with applications. Prerequisite: Two years of high school mathematics.
- 1320. Elementary Functions and Analytic Geometry. (5-0-5) F, S.** 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) F, S.** 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. Prerequisite: 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. Prerequisite: Mathematics 1290 or 1300 or satisfactory placement score.

- 2310. Computer Programming. (2-2-3) F, S.** 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. (0-2-1) F, S.** 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) 2352, F, S.; 2353, F, S.** 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) F, S.** Taught on half semester basis. The study of linear algebra with special emphasis on applications. Prerequisite: Mathematics 1300 or its equivalent.
- 2670. Computational Techniques. (2-2-3) F.** Computational models and problem solving, programming techniques. Prerequisite: Mathematics 2310.
- 3190. Topics in Elementary Mathematics. (1-2-2)** 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 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. Restricted to students in curriculum for 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) F, S.** Methods and materials for teaching mathematics in the elementary school with emphasis on grades 4-6. Restricted to students in curriculum for elementary or junior high 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) 3271-F, S; 3272-S.** 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) F, S.** 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 2352.
- 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) 3531-F, S; 3532-S.** 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, instruc-

tion 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) F, S.** 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) S.** 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. This course to be taken Pass-Fail, but not to count against the maximum of twelve semester hours in Pass-Fail option. Prerequisite: Acceptance of the student by a firm on the basis of the student's application and permission of the chairman of the Mathematics Department. Permission may be denied if the student does not have an overall grade point average of at least 2.50 and a major grade point average of at least 2.75.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Linear Programming. (3-0-3) S.** A study of linear inequalities, linear programming problems and the techniques for solving linear programming problems by the simplex method. Prerequisites: Mathematics 2352; and Mathematics 2550 or 3532.
- 4760. Linear Algebra. (3-0-3) S.** 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.
- 4770. Applied Advanced Calculus. (3-0-3) S.** Calculus of several variables. Line and surface Integrals. Vector and Tensor Analysis, Fourier Series. Prerequisite: Mathematics 2353.
- 4810. Advanced Arithmetic for Secondary School Mathematics Teachers. (1-2-2) Su.** An examination from an advanced viewpoint of arithmetic topics useful in teaching secondary school mathematics. Relevance of these topics to secondary school teaching will be included. Prerequisite: Mathematics 3400 or Junior High School Education 3140 or permission of the chairman of the department.
- 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.
- 4860. Mathematical Analysis. (4-0-4) F, Su.** A study of limits, convergence of sequences and series, continuity, differentiation, and Riemann integration. Prerequisite: Mathematics 2353.
- 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.)

- 5050. Numerical Analysis. (4) S.** Rounding errors, difference equations, solutions of equations and systems of equations, interpolations, numerical differentiation. Prerequisites: Mathematics 2310 or 3501.
- 5080. Structure of Programming Languages. (3) S.** The structure and syntax of ALGOL. Selected topics in computer science. Prerequisite: Mathematics 2310 or permission of the chairman of the department.
- 5101, 5102. Abstract Algebra. (4 each course) 5501-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 3702 or permission of the chairman of the department.
- 5200. Higher Geometry. (4) Su.** A selection of topics from transformation geometries. Prerequisite: Mathematics 3532 or permission of the chairman of the department.
- 5210 (4780). An Introduction to Differential Geometry. (3-0-3) Su.** The Euclidean space-functions, transformations, differential fields and forms, and the study of curves in Euclidean space. Prerequisite: Mathematics 3532 or permission of the chairman of the department.
- 5220. Topology. (4) F.** Metric spaces. Topological spaces. Connectedness. Compactness. Prerequisite: Mathematics 4860 or permission of the chairman of the department.
- 5301. Real Variables. (4) Su.** Set theory. Cardinal numbers. Real numbers. Measure theory. Lebesgue theory. Prerequisite: Mathematics 4860 or permission of the chairman of the department.
- 5330. Complex Variables. (4) F.** Complex numbers, analytic functions, conformal mappings, complex integrations. Prerequisite: Mathematics 4860 or permission of the chairman of the department.
- 5335. Topics in Mathematics. (4)** 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) Su, S.** 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.
- 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.
- 5610. Abstract Algebra for Secondary School Mathematics Teachers. (3) F.** A study of the solutions of polynomial equations from classical and modern points of view. Relevance of these topics to secondary teaching will be included. Prerequisite: Mathematics 3531 and one year of mathematics teaching experience or permission of the chairman of the department.
- 5620. Modern Geometries for Secondary School Mathematics Teachers. (3) S.** Geometry appropriate for teachers in high schools including higher Euclidean geometry, geometry of transformations, and coordinate geometry. Relationships to high school teaching will be included. Prerequisite: Mathematics 3271 and one year mathematics teaching experience, or permission of the chairman of the department.
- 5630. Elementary Functions for Secondary School Mathematics Teachers. (2) F.** The study of functions appropriate for teachers of secondary school mathematics. Relevance of these topics to secondary school mathematics will be included. Prerequisite: Mathematics 2352 and one year of mathematics teaching experience or permission of the chairman of the department.

- 5640. Basic Analysis for Secondary School Mathematics Teachers. (3) S.** Concepts from analysis useful in teaching analytic geometry and calculus in high school. Prerequisite: Mathematics 2352 and one year of mathematics teaching experience or permission of the chairman of the department.
- 5700. Topics in Teaching Mathematics. (2 to 4) Su, F.** Study of problems which arise in teaching secondary mathematics, research in mathematics education; assigned reading reports. Prerequisite: Experience teaching grades six through twelve or permission of the chairman of the department. May be repeated for a maximum of nine semester hours 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.

MEDICAL TECHNOLOGY

UNDERGRADUATE COURSES

- 2600 (Chemistry 2600). Introduction to Medical Technology I. (1-2-2) F, 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.
- 3000. Introduction to Medical Technology II. (1-2-2) F, S.** A survey of laboratory methods used in the modern clinical laboratory. Limited enrollment. Prerequisite: Open to junior standing medical technology students only. Permission of the Chairman of the Medical Technology Program.

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 or 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.

Students who wish to elect Composition as their principal applied study are required to demonstrate, through audition performance, skill on one or more instruments or voice and to provide scores and/or tapes or original compositions prior to enrollment or during the enrollment period.

STUDIES IN PERFORMANCE AND COMPOSITION

In the major applied field, at least several years of study prior to college entrance are required. In the case of organ, prior study in piano is sufficient for acceptance. Private and class instruction are offered in all areas of performance, including composition (cf. listings).

Applied music courses yield variable credit, depending upon the curriculum elected by the student with a major in music as follows:

Degree Program	Credit Hours per Semester	Lesson or Class Instruction per week	Practice per Day
Bachelor of Music			
Performance	4	1 hour	4 hours
Education			
Principal	1-2	½ - 1 hour	2 hours
Secondary	1	½ hour	1 hour

Courses in composition are similar in plan. Generally students are expected to complete the minimum requirement over a period of seven semesters.

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 applied music may be repeated for credit in each degree program according to applied requirements which are stipulated for each program. Students may elect applied hours beyond the stipulated requirements for the particular program in which they are enrolled.

The student's progress in his principal applied subject shall be evaluated each year by the faculty of the area in which he is enrolled. If composition is the principal applied subject, the student's progress shall be evaluated by a faculty committee each semester. Students entering the program above the freshman level will be evaluated at the time of their entrance audition and advised of their entering at the time of their entrance audition and advised of their entering level of proficiency.

The Junior Standing Jury (a graduation requirement for all music majors) normally occurs at the end of the fourth semester of applied instruction. Students must pass the Junior Standing Jury to receive upper division credit and must complete the Jury by the end of the sixth semester, or its equivalent. Instrumental Keyboard, and Vocal principals are required to have at least two hours of upper division credit (3300 catalog) to be eligible for graduation.

Students electing the general music option must achieve Junior Standing but are not required to have upper division credit.

CREDIT ORGANIZATIONS IN MUSIC

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.

Non-music majors may earn no more than four semester hours of credit toward graduation in chorus, orchestra, or band.

Non-music majors must have permission of the instructor to register for more than one hour credit (Sec. 001) in applied music.

Cecilian Singers

Open to all qualified university women. Study and performance of all types of literature, from classic to popular.

Chamber Groups in Instrumental Music

Chamber groups of woodwinds, brasses, strings and percussion, 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 time in combination, are employed.

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.

Jazz Band

The jazz band offers an opportunity to play the finest in jazz 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.

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

Personnel of the pep bands are selected from the Symphonic Winds and Concert Band to perform at basketball games.

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 wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

NOTICE

In the event that students choose to store musical instruments on campus in any building operated by the University, they thereby waive any and all liability of the University and its employees for loss of, or damage to, such musical instruments by any cause whatsoever, including, but not limited to fire, water, windstorm or other casualty, theft, or dampness or dryness of the air.

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.

Instrumental principals in the instrumental emphasis and students in the general music emphasis must achieve junior standing in their principal applied area with a junior and senior recital being optional. Vocal and piano principals in the music education option are required to present junior and senior recitals. Organ principals will present a senior recital and either a junior recital or equivalent performances.

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)	0034.* Tuba. (Arr.-Arr.-1 or 2 or 4)
0020.* Flute. (Arr.-Arr.-1 or 2 or 4)	0040.* Percussion. (Arr.-Arr.-1 or 2 or 4)
0021.* Oboe. (Arr.-Arr.-1 or 2 or 4)	0050.* Violin. (Arr.-Arr.-1 or 2 or 4)
0022.* Clarinet. (Arr.-Arr.-1 or 2 or 4)	0051.* Viola. (Arr.-Arr.-1 or 2 or 4)
0023.* Bassoon. (Arr.-Arr.-1 or 2 or 4)	0052.* Violoncello. (Arr.-Arr.-1 or 2 or 4)
0024.* Saxophone. (Arr.-Arr.-1 or 2 or 4)	0053.* String Bass. (Arr.-Arr.-1 or 2 or 4)
0030.* Trumpet. (Arr.-Arr.-1 or 2 or 4)	0060.* Piano. (Arr.-Arr.-1 or 2 or 4)
0031.* Horn. (Arr.-Arr.-1 or 2 or 4)	0061.* Organ. (Arr.-Arr.-1 or 2 or 4)
0032.* Trombone. (Arr.-Arr.-1 or 2 or 4)	0062.* Harpsichord. (Arr.-Arr.-1 or 2 or 4)
0033.* Baritone. (Arr.-Arr.-1 or 2 or 4)	0070.* Composition. (Arr.-Arr.-1 or 2 or 4)

*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., Secondary Applied — 1 hr.; Music Education Option — 1 or 2 hrs. Performance Option — 4 hrs.

0100. **Ensemble, Band. (0-4-1)** Music majors and minors may count up to 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.
0110. **Ensemble, Orchestra. (0-4-1)** Music majors and minors may count up to 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 up to 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 up to 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. May be substituted for one sem. hr. of Music 0100, 0110, 0120, or 0300. Prerequisite: Permission of the instructor.
1070. **Electronic Music Studio Techniques. (1-Arr.-1)** F, S. Basic electronic music techniques. Principles and use of electronic music synthesizer, mixers, recording machines in the production and shaping of electronic sound.

- 1103. Recital. (No credit.)** Music majors should enroll each semester in residence.
- 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. Fundamentals of Music I. (2-1-3)** A study of the fundamentals of music including cultural experiences utilizing music literature appropriate for use in elementary and junior high school classrooms.
- 1423. Music for Recreation Majors. (1-2-2) F, S.** Planning and implementing musical experiences in recreation programs.
- 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 of binary, ternary, rondo, and fugue forms; 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.
- 2001.** (See Fine Arts 2001)
- 2002 (3002).** (See Fine Arts 2002)
- 2003.** (See Fine Arts 2003)
- 2136. Class Instruction in Voice. (0-2-1) F, S.** The second course of study for keyboard principals 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 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. Prerequisites: 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 music majors and minors. Prerequisite: Music 1204 or placement by audition during enrollment.
- 2204. Functional Skills in Piano. (0-2-1)** A course for music majors and minors. Prerequisite: Music 2203 or placement by audition during enrollment.
- 2205. Keyboard Skills I. (0-2-1) F.** A course for keyboard majors or other qualified students to develop functional skills in harmonization, sight-reading, improvisation, and transposition. Prerequisite: Music 1543 or permission of the instructor.
- 2206. Keyboard Skills II. (0-2-1) S.** Continuation of Music 2205. Prerequisite: Music 2205 or permission of the instructor.
- 2360. Instrumental Conducting. (1-1-1) F.** An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 1543.
- 2421. Fundamentals of Music II. (3-0-3) F.** Continuation of Music 1421. Prerequisite: Music 1421. Required of elementary majors with a subject concentration in fine arts.
- 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 a subject concentration in fine arts.
- 2440. Laboratory in Music Education. (1-Arr.-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.
- 2542. Music Theory. (3-0-3) F, S.** The study of 20th Century materials and how they relate to musical structure. Prerequisite: Music 2541.
- 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.
- 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.
- 2563 (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.
- 2564 (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.
- 2565 (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.
- 2566 (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.
- 2580. History and Literature of Music. (3-0-3) 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. May be substituted by keyboard principals for one hour of large ensemble. 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.
- 3260 (3360). Instrumental Conducting. (2-0-2) S.** An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 2360.
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| 3310.* Voice. (Arr.-Arr.-1 or 2 or 4) | 3334.* Tuba. (Arr.-Arr.-1 or 2 or 4) |
| 3320.* Flute. (Arr.-Arr.-1 or 2 or 4) | 3340.* Percussion. (Arr.-Arr.-1 or 2 or 4) |
| 3321.* Oboe. (Arr.-Arr.-1 or 2 or 4) | 3351.* Violin. (Arr.-Arr.-1 or 2 or 4) |
| 3322.* Clarinet. (Arr.-Arr.-1 or 2 or 4) | 3352.* Viola. (Arr.-Arr.-1 or 2 or 4) |
| 3323.* Bassoon. (Arr.-Arr.-1 or 2 or 4) | 3352.* Violoncello. (Arr.-Arr.-1 or 2 or 4) |
| 3324.* Saxophone. (Arr.-Arr.-1 or 2 or 4) | 3353.* String Bass. (Arr.-Arr.-1 or 2 or 4) |
| 3330.* Trumpet. (Arr.-Arr.-1 or 2 or 4) | 3360.* Piano. (Arr.-Arr.-1 or 2 or 4) |
| 3331.* Horn. (Arr.-Arr.-1 or 2 or 4) | 3361.* Organ. (Arr.-Arr.-1 or 2 or 4) |
| 3332.* Trombone. (Arr.-Arr.-1 or 2 or 4) | 3362.* Harpsichord. (Arr.-Arr.-1 or 2 or 4) |
| 3333.* Baritone. (Arr.-Arr.-1 or 2 or 4) | 3370.* Composition. (Arr.-Arr.-1 or 2 or 4) |
- * 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.
- 3400. Methods of Teaching Instrumental Music. (3-0-3) F, S.** 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) S.** Objectives, methods, and materials of music education in elementary grades. Prerequisites: Music 2440. For music majors and minors.
- 3440. Methods of Teaching Vocal-General Music in the Secondary Schools. (2-0-2) F.** Methods and materials for teaching vocal, choral and general music in grades 7 through 12. For music majors and minors. Prerequisite: Music 2440.
- 3547. Orchestration. (2-0-2) F.** Beginning practical experience in scoring for orchestra.
- 3571. History and Literature of Music (3-0-3) 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. (3-0-3) 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 for 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. (2-0-2) S.** A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations. Prerequisite: Three semesters of music theory.
- 4770. Song Literature. (2-0-2) F.** The study of solo song literature from the Renaissance period to the present. May be taken twice for credit.
- 4840. Band Arranging. (2-0-2) S.** A course in scoring and arranging materials for instrumental ensembles.
- 4850. Jazz Band Arranging. (2-0-2) S.** A course dealing with the basic problems and techniques involved in arranging for a jazz band. Prerequisite: Music 2543 or equivalent.
- 4860. Marching Band Procedure. (2-0-2) F.** Rudiments of marching band pageantry, and field maneuvers.
- 4870. Style Period Proseminar. (3-0-3)** Stylistic study of the music of a period pre-selected from the following: 1) Middle Ages; 2) Renaissance; 3) Baroque; 4) Rococo-Classical; 5) Romantic; and 6) Twentieth Century. May be repeated for a maximum of 18 semester hours of undergraduate credit or nine semester hours of graduate credit. Prerequisite or corequisite: Music 3571 or 3572.
- 4900. Church Music. (2-0-2) S.** A historical review of hymnody, psalmody, and choral and keyboard literature in relation to current worship practices.
- 4920 (5410). Keyboard Literature. (3-0-3) S.** A study of selected literature. May be taken twice for credit.
- 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) Su, S.** A study of style (in instrumental and vocal ensemble music) as it pertains to problems of the conductor. Prerequisite: Music 3155 or 3260.
- 5170. Analytical Techniques. (3) F.** An investigation of structure, stylistic characteristics and compositional techniques.
- 5450. Instrumental Pedagogy. (3) Su.** An advanced course designed to strengthen the knowledge, method and techniques of the wind, string, and percussion instruments.
- 5500. Ensemble. (0-4-1)** To be chosen from Band, Orchestra, Chorus, Jazz Ensemble, Accompanying, Chamber Ensemble, Music Theatre. May be repeated for a total of 4 semester hours credit.

Auditions are required for initial placement in the following music courses: 5510-5570.

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| 5510. Voice. (Arr.-Arr.-1 or 2) | 5534. Tuba. (Arr.-Arr.-1 or 2) |
| 5520. Flute. (Arr.-Arr.-1 or 2) | 5540. Percussion. (Arr.-Arr.-1 or 2) |
| 5521. Oboe. (Arr.-Arr.-1 or 2) | 5550. Violin. (Arr.-Arr.-1 or 2) |
| 5522. Clarinet. (Arr.-Arr.-1 or 2) | 5551. Viola. (Arr.-Arr.-1 or 2) |
| 5523. Bassoon. (Arr.-Arr.-1 or 2) | 5552. Violoncello. (Arr.-Arr.-1 or 2) |
| 5524. Saxophone. (Arr.-Arr.-1 or 2) | 5553. String Bass. (Arr.-Arr.-1 or 2) |
| 5530. Trumpet. (Arr.-Arr.-1 or 2) | 5560. Piano. (Arr.-Arr.-1 or 2) |
| 5531. Horn. (Arr.-Arr.-1 or 2) | 5561. Organ. (Arr.-Arr.-1 or 2) |
| 5532. Trombone. (Arr.-Arr.-1 or 2) | 5562. Harpsichord. (Arr.-Arr.-1 or 2) |
| 5533. Baritone. (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. Class Piano Pedagogy and Internship. (3) F.** May be taken twice for credit. 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.
- 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:** 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.

OCCUPATIONAL EDUCATION

UNDERGRADUATE COURSES

- 3200. Occupational Experience. (Up to 30 sem. hrs.)** Credit for documented experience in a teachable occupation or cluster of occupations. This is the designation for occupational credit earned or awarded for occupational proficiency.
- 3300. Occupational Subjects. (Up to 20 sem. hrs.)** Credit is evaluated for occupational study in accredited and selected other programs such as technical institutes, occupational programs in junior colleges, proprietary schools, military technical schools, USAFI, Service Schools, and other Armed Services courses.
- 3400. Methods and Processes in Occupational Education. (3-0-3)** Application of such teaching methods as problem-solving, simulation, programmed instruction, computerized instruction and innovative and emerging methods and materials suitable for vocational teachers.
- 3800. Occupational Internship. (Arr.-Arr.-6-18 sem. hrs.)** Experience includes job skills and knowledge, management-worker relations, supervised instruction conferences and evaluations. Six semester hours a semester up to a maximum of 18 semester hours will be awarded for directed work experience internships.
- 4300. Special Study in Occupational Education. (Arr.-Arr.-3)** Provides opportunity for in-depth study of selected problems in occupational education for which there is not an established course. May be taken for credit only once. Prerequisite: Prior approval by the Director and assignment of an appropriate instructor.
- 4600. Cooperative Occupational Education Programs. (3-0-3) S.** The preparation of personnel assigned the responsibility of planning, organizing, implementing, and operating cooperative occupational education programs.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Strategies and Processes in Occupational Education. (3-0-3)** Application of such teaching strategies as problem-solving, simulation, programmed instruction, computerized instruction and innovative and emerging methods and materials suitable for vocational teachers.
- 4810. Principles of Career Development. (3-0-3)** The nature, purpose, and philosophy of career education as it relates to the career development of individuals. Includes an overview of various levels of career development and the contributions various programs make to a total program of career development. Contemporary problems and issues in career development.

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. 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.
- 2010. Oriental Philosophies. (3-0-3) F-even numbered years.** An introduction to the traditional philosophical-religious ideas that underlie the life and culture of China, India, and Japan.
- 2850. History of Philosophy: Medieval. (3-0-3) F.** An examination of the principal philosophers from Epicurus through St. Thomas Aquinas.
- 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.
- 2900. Symbolic Logic. (3-0-3) S-odd numbered years.** An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus.
- 3000. Philosophy and Current Issues. (3-0-3) F, S.** 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.
- 3030. Science and Human Values. (3-0-3) F-odd numbered years.** An introductory examination of the character of scientific inquiry and its impact on religion, moral and political values.
- 3040. Aesthetics. (3-0-3) F-odd numbered years.** A critical examination of aesthetic experience and fine art: artistic creativity, the work of art, and criteria of judgment.

- 3060. Philosophical Ideas in Literature. (3-0-3) F-odd numbered years.** Study of philosophical problems such as God, love, personal identity, alienation, and freedom in literature.
- 3070. Existentialism. (3-0-3) S-even numbered years.** Examination of such thinkers as Kierkegaard, Nietzsche, Heidegger, Tillich, and Sartre.
- 3100. Nineteenth Century Philosophy. (3-0-3) F-even numbered years.** A study of the principal philosophers of the Nineteenth Century such as Hegel, Nietzsche, Kierkegaard, Mill and Marx.
- 3300. Social and Political Philosophy. (3-0-3) S-odd numbered years.** A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation.
- 3800. Contemporary Philosophy. (3-0-3) S-even numbered years.** A study of some main Twentieth Century developments such as Existentialism, Phenomenology, Pragmatism, Positivism, and Analytic Philosophy.
- 3900 (4100). Philosophy of Religion. (3-0-3) F.** A philosophical interpretation of religion, religious experience, and fundamental problems: God, evil, immortality, religious knowledge.
- 4400. Independent Study. (Arr.-Arr.-3)** Intensive individual study on a topic in philosophy selected by student under supervision of instructor. Prerequisites: Nine semester hours in philosophy and approval of the chairman of the department.
- 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). (0-10-1) S.**
- 0030. Basketball (Intercollegiate Team Participation). (0-10-1) S.**
- 0040. Field Hockey (Intercollegiate Team Participation). (0-10-1) F.**
- 0050. Soccer (Intercollegiate Team Participation). (0-10-1) F.**
- 0060. Volleyball (Intercollegiate Team Participation). (0-10-1) F.**
- 0070. Badminton (Intercollegiate Team Participation). (0-10-1) S.**
- 0080. Fencing (Intercollegiate Team Participation). (0-10-1) S.**
- 0090. Football (Intercollegiate Team Participation). (0-10-1) F.**
- 0100. Softball (Intercollegiate Team Participation). (0-10-1) S.**
- 0120. Golf (Intercollegiate Team Participation). (0-10-1) S.**
- 0130. Gymnastics (Intercollegiate Team Participation). (0-10-1) S.**
- 0140. Tennis (Intercollegiate Team Participation). (0-10-1) F, S.**

0150. **Wrestling (Intercollegiate Team Participation).** (0-10-1) S.
0160. **Cross Country and Track (Intercollegiate Team Participation).** (0-10-1) F, S.
0180. **Swimming (Intercollegiate Team Participation).** (0-10-1) S.
1000. **Physical Development.** (0-2-1), F, S.
- 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.
- 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.
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.
- 1480 (M 1670). **Canoeing.** (0-2-1) Prerequisite: Demonstrate level of swimming ability by passing a pre-test.
1490. **Sailing.** (0-2-1)
1600. **Weight Training.** (0-2-1)
- 1610 (M 1100; W 1800). **Archery.** (0-2-1)
- 1620 (M 1020) **Orienteering.** (0-2-1) F.
1630. (M 1180). **Casting and Angling.** (0-2-1) S.
1640. **Rifle and Pistol.** (0-2-1)
1650. **Trap and Skeet.** (0-2-1) F, S. 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.
- 1681 (M 1130; W 1890). **Gymnastics Apparatus.** (0-2-1) S.
- 1690 (M 1160; W 1940). **Track and Field.** (0-2-1)
1720. **Basketball.** (0-2-1) F, S.
1740. **Soccer.** (0-2-1) F.
- 1750 (1060). **Softball.** (0-2-1) S.
- 1770 (M 1080; W 1770). **Volleyball.** (0-2-1) F, S.
- 1780 (1070). **Flag Football.** (0-2-1) F.
- 1810 (M 1110; W 1810). **Badminton.** (0-2-1)
- 1820 (M 1620). **Handball.** (0-2-1) F, S.
1830. **Racquetball.** (0-2-1)
- 1840 (M 1150). **Wrestling.** (0-2-1) F, S.

- 1870 (M 1140; W 1870). **Tennis.** (0-2-1)
- 1880 (M 1660; W 1880). **Fencing.** (0-2-1) F, S.
1900. **Folk Dance.** (0-2-1) F.
1910. **Modern Dance.** (0-2-1) F, S.
1920. **Ballroom Dance.** (0-2-1) F, S.
1930. **Square Dance.** (0-2-1) F.
2610. **Archery (Advanced).** (0-2-1) F.
- 2660 (M 1790). **Bowling (Advanced).** (0-2-1) F. Fee.
- 2810 (M 1710; W 2810). **Badminton (Advanced).** (0-2-1) F.
- 2870 (M 1740; W 2870). **Tennis (Advanced).** (0-2-1) S.
2930. **Square Dance (Advanced).** (0-2-1) S.

NON-CREDIT INTERCOLLEGIATE SPORTS

0230. **Early Badminton.** (5-0-0) F.
0330. **Early Basketball.** (5-0-0) F.
0430. **Early Gynamastics.** (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) F, S. 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) F, S. A study of the learning process with emphasis on learning of motor skills and recent research in motor learning.
1530. **Basic Activities in Elementary Physical Education.** (2-2-3) F, S. 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.** (0-2-1) To learn techniques of teaching selected individual and team activities and to observe and participate in a practical teaching situation. Prerequisites: Sophomore standing and two semester hours of physical education activities at the 1000 level.
2101. **Technique and Theory of Badminton and Tennis.** (0-4-2) F. The development of basic skills and techniques of badminton and tennis.
2102. **Technique and Theory of Golf and Bowling.** (0-4-2) S. The development of basic skills and techniques of golf and bowling.

- 2103. Technique and Theory of Track and Field and Weight Training. (0-4-2) S.** The development of basic skills of track, field, and weight training.
- 2104. Technique and Theory of Soccer/Speedball, and Modified Team Sports. (0-4-2) F.** Instruction in the technique, theory, and game procedures in soccer, speedball, and modified team sports.
- 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) F, S.** 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) F, S.** 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.
- 2250. Technique and Theory of Rhythmic Movement. (0-4-2) F.** The course is designed to explore basic movement principles and their application to dance and sport activities.
- 2270 (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.
- 2320. Technique and Analysis of Stunts, Tumbling and Gymnastics. (0-4-2) F, S.** Participation in various phases of gymnastics and emphasis on analyses and uses of activities in teaching and recreation.
- 2370. Technique and Theory of Field Hockey and Volleyball. (0-4-2) F.** The development of basic game skills, strategies, and techniques in field hockey and volleyball.
- 2380. Technique and Theory of Flag Football and Basketball. (0-4-2) S.** The development of basic game skills, strategies and techniques in basketball and flag football.
- 2410. Physical Education for Elementary Children. (3-0-3) F, S.** 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) F, S.** An introduction to various conditions and activity programs, suitable to the needs of exceptional individuals. Prerequisite: Physical Education 2440.
- 2960 (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.
- 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. Teaching of Dance. (3-0-3) F, S.** Materials and methods for teaching modern, folk, square and ballroom dance. Prerequisites: Two of the following: Physical Education 1900, 1920, 1930, 2220, 2230.
- 3220. Technique and Theory of Folk, Square and Ballroom Dance II. (0-4-2) F.** 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 advance dance techniques, problem-solving, improvisation and the application of the kinesthetic sense. Prerequisite: Physical Education 2230.
- 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. Prerequisite: Physical Education 2230 or permission of the instructor.

- 3330. **Badminton and Tennis Teaching and Coaching. (2-2-3) S.** A study of analyses of skills and methods of teaching badminton and tennis. Prerequisites: Physical Education 1810 and 1870.
- 3350. **Swimming Teaching and Coaching. (2-2-3) S.** A survey of aquatic activities. Emphasis will be placed on the mechanical principles of swimming and diving, and methods of teaching aquatic activities. Prerequisite: Equivalency of Junior Life Saving or recommendation of instructor.
- 3370. **Field Hockey and Basketball Teaching and Coaching. (2-2-3) F.** Provides for the understanding of advanced techniques, skills analyses and progressions as applied to field hockey and basketball with further skill development in these areas. Prerequisite: Previous background or permission of instructor.
- 3380. **Softball and Volleyball Teaching and Coaching. (2-2-3) S.** 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: Previous background or permission of instructor.
- 3400. **Methods of Teaching Physical Education. (3-0-3)** Organization and methods of teaching physical education activities for various age levels.
- 3470. **Basketball Coaching. (2-2-3) F, S.** Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play. Prerequisite: Previous background or permission of instructor.
- 3480. **Football Coaching. (2-2-3) S.** Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; rules and strategy. Prerequisite: Previous background or permission of instructor.
- 3490. **Track and Field Coaching. (2-2-3) S.** Fundamentals of track and field events. Organization of track meets. Study of rules and strategy. Prerequisite: Previous background or permission of instructor.
- 3500. **Baseball Coaching. (2-2-3) F.** Fundamentals of batting; fielding; playing various positions. Rules, strategy; play situations. Prerequisite: Previous background or permission of instructor.
- 3550 (M 3600). **Wrestling Coaching. (2-2-3) S.** Theory and application of wrestling maneuvers; rules; conditioning and training.
- 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.** 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) F, S.** 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) F, S.** 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) F, S.** An overview of the total programs in the elementary school. Prerequisites: Physical Education 3620 and 3630.
- 3700. **Psychological Foundations of Coaching. (2-0-2) F.** 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.

- 4320 (M 4320; W 4110 and 4130). Organization, Administration and Supervision of Physical Education. (3-0-3)**
- 4340. Physiological Foundation of Coaching. (2-0-2) S.** The course is designed to provide the prospective athletic coach with an understanding of the physiological factors that affect human performance.
- 4741. Independent Study. (Arr.-Arr.-1-3) 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.
- 4800. The Atypical Child in Action. (3-0-3) F, S.** The course is designed to prepare the student to teach sensorimotor learning activities through physical education to the atypical child from pre-school through sixth grade. Prerequisite: Physical Education 3600 or 2410 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.)

- 5100. Supervision of Physical Education. (3) S-odd numbered years.** 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) F.** 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-odd numbered years.** Materials organization and program of physical education. Integration of physical education with general education.
- 5141. Movement Experiences for the Child. (2) Su-even numbered years.** 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) S.** 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-odd numbered years.** 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) Su, 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) Su, 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 2999 or equivalent.

- 5240. Physical Education for the Atypical Individual. (2) F-even numbered years.** 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-even numbered years.** 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 3830.
- 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-odd numbered years.** 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 2440.
- 5600. Advanced Theory and Analysis of Team Sports. (2) S-odd numbered years.** 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) S-even numbered years.** 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) F.**
- 5630. Philosophy of Physical Education. (3) Su-odd numbered years.** Study of principles of physical education with application to current problems in the field.
- 5700. Experimental Laboratory Research in Physical Education. (4) Su, 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) S-odd numbered 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-even numbered years.** Assigned readings in professional publications for education and health and physical education articles.
- 5900. Introduction to Graduate Study in Physical Education. (4) Su, F.** 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

- 1100. Physical Science. (2-4-4)** Selected topics in Chemistry, Physics, and Astronomy covering concepts in programs such as ISCS, SCIS & SAPA. Credit cannot be accepted toward graduation for both Physical Science 1100 and Chemistry 1050 or Physics 1050.
- 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.

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.)

Courses in chemistry and physics are used for the M.S. in Education degree in Physical Science. See Chemistry and Physics.

PHYSICS

Note: Physics 1350, 1360, and 1370 constitute the standard introductory sequence in physics for majors and minors in the physical sciences, industrial technology, and pre-engineering. Physics 1150 and 1160 are intended primarily for life science majors, students in the health professions (pre-medical, etc.) and those students desiring a full year cultural exposure to physics in a course with less technical emphasis than the 1300 series. Students planning to enter the graduate programs which require a year of physics should take Physics 1150 and 1160, or 1350 and 1360.

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 prerequisite. No credit for a student who has had a previous course in college physics except for Physics 1054.
- 1054 (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.
- 1150. Principles of Physics I. (3-2-4)** Motion, Newton's Laws, Energy Momentum, Gravity and Heat. Not intended for physics majors, chemistry majors, or pre-engineering students.
- 1160. Principles of Physics II. (3-2-4)** Electricity and Magnetism, Light, Sound and Atomic Physics. Prerequisite: Physics 1150 or permission of the instructor. Not intended for physics majors, chemistry majors, or pre-engineering students.

- 1210. Acoustics. (2-2-3) S.** Sound and acoustics as applied to architecture, music, and speech.
- 1250. Physics for Energy Management I. (2-2-3)** An introduction to the fundamental concepts of mechanics and thermodynamics with emphasis on those areas of particular concern to Energy Management majors. Enrollment limited to majors in the School of Business. No credit toward graduation if student has credit for Physics 1150 or 1350.
- 1260. Physics for Energy Management II. (2-2-3)** Continuation of Physics 1250, fundamentals of electricity and magnetism, physical optics and nuclear physics. No credit toward graduation if student has credit for Physics 1160 or 1360. Prerequisite: Physics 1250. Enrollment limited to majors in the School of Business.
- 1350. College Physics I. (3-3-4)** Statics, dynamics, simple harmonic motion, and relativistic mechanics.
- 1360. College Physics II. (3-3-4)** Thermodynamics, electricity and magnetism. Prerequisite: Physics 1350 or permission of instructor.
- 1370 (2370). College Physics III. (3-3-4) F, S.** Wave motion and sound, optics, modern physics, atomic and nuclear theory. Prerequisite: Physics 1360 or permission of the instructor.
- 2390. Classical Mechanics I. (3-0-3)** One dimensional motion, line integral computation of work, vector analysis in coordinate systems, conservative fields, harmonic motion. Prerequisite: Physics 1350 or permission of the instructor. 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.
- 3010, 3011, 3012. Mini-Physics. (1-0-1 for each)** 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) F, S.** 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. (3-2-4) F.** Coulomb's law, electric fields, potential, Gauss' law, capacitance, dielectrics, electrostatic energy, DC circuits introduction to magnetic fields and forces, induction. Prerequisites: Physics 1360 and Mathematics 2352.
- 3420. Electricity and Magnetism II. (3-3-4) S-even numbered years.** Advanced magnetism, magnetic materials, magnetic energy, varying electric currents, AC circuits, Maxwell's equations, electromagnetic radiation. 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. (Arr.-Arr. 1 to 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-even numbered years.** Geometrical optics, optical instruments, wave optics: superposition, coherence, interference, diffraction, polarization. Corequisites: Physics 1370. Mathematics 2352.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Thermodynamics and Statistical Mechanics. (4-0-4) S-odd numbered years.** Thermometry, thermodynamic laws, kinetic theory, Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics and applications. Prerequisites: Physics 1360; Mathematics 2352.

- 4800. Independent Study. (Arr.-Arr. 1 to 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) F.** 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 1370.
- 4840. Experimental Physics II. (0-6-3) F.** Experiments from different areas of physics using varied techniques and equipment in acquisition and analysis of physical data. Prerequisite: One physics course beyond Physics 1370.
- 4850. Quantum Mechanics and Atomic Physics I. (3-3-4) S.** Schrodinger equation applied to one, two, and three dimensional problems, harmonic oscillator and hydrogen atom, uncertainty principle. Prerequisites: Physics 1370; Mathematics 2353 or 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. Prerequisite: Physics 2400. Corequisite: Physics 3420 or permission of the instructor.
- 4950. Energy Science. (3-3-4) (Omitted 1977-78).** A course taught jointly by the Departments of Physics and Chemistry and designed for majors in the Energy Management program. Topics covered include the conversion, distribution and storage of energy, concomitant environmental problems, and methods of energy conservation (also offered as Chemistry 4950). Prerequisites: One year of college-level physics; one year of college-level chemistry; differential and integral calculus.

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.)

The following courses are available for the M. S. in Education degree in Physical Science.

- 5120. Classical Mechanics for High School Teachers. (3) Su. (every third year beginning 1978)** 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 1978)** 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 1979)** 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 1979)** 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 1977)** 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 1977)** 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.
- 1103 (1104). American National Government. (3-0-3)** The fundamental principles of the American Constitutional System: Federalism, political opinion, political parties, pressure groups, legislators, the Presidency, bureaucracy, judiciary, civil liberties.
- 2003. Information Sources in Political Science. (1-4-3) F, S.** A survey of information sources in political science with an emphasis upon library materials. Knowledge of research sources and improvement of research methods are stressed.
- 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.
- 2052. Analysis of Political Data. (2-0-2) F, S.** Quantitative techniques used in analyzing political systems. Practical experience in computer-assisted research.
- 2203. Introduction to International Relations. (3-0-3) 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) 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. Politics and Policy Issues in Western Europe. (3-0-3) S.** Welfare state program, nationalized industry, urban guerrilla movements, the Common Market, parties, political behavior and government structures. Prerequisite: Three semester hours of political science.
- 3323. Government and Politics of the U.S.S.R. and Eastern Europe. (3-0-3) F.** 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-even numbered years.** 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) F-odd numbered years.** 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 China and Asia. (3-0-3) F.** The political systems of China and other major nations of Asia with an emphasis upon the Communist Party, ideology, political processes and institutions. Prerequisite: Three semester hours of political science.
- 3373. Politics of Oil in the Persian Gulf States. (3-0-3) F.** A study of the politics of the Persian Gulf States with an emphasis upon oil as a factor in political modernization and regional and international relations. Prerequisite: Three semester hours of political science or permission of instructor.
- 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 1103.
- 3513. 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 1103.
- 3523. Administration of the Criminal Code. (3-0-3) F.** An analysis of the manner in which American criminal law, law officers, and criminal law bodies function. Prerequisite: Political Science 1103 or permission of the instructor.
- 3533. Civil Proceedings. (3-0-3) S.** An examination of the means by which government provides for the settlement of disputes between private parties in such matters as contracts, domestic relations, malpractice suits, and auto accidents. Prerequisite: Political Science 1103 or permission of the instructor.
- 3643. Comparative State Politics. (3-0-3) F.** 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 1103 or permission of the instructor.
- 3723. Political Behavior. (3-0-3) F.** An analysis of individual and group political behavior with an emphasis upon current research. Prerequisite: Political Science 1103 or permission of 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 1103 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 1103 or permission of the instructor.
- 3753. The American Presidency. (3-0-3) F.** 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 1103 and 2603 or permission of the instructor.
- 3903. Sex and Politics. (3-0-3) F.** An analysis of the relationship between sex and power in the contemporary political system. Comparisons of Western and non-Western male-female political and legal status and changing behaviors.

- 3990. Summer Studies in Ireland and Britain. (Arr.-Arr.-6) Su.** Independent research in political science. Six weeks of residence in the Republic of Ireland or Britain 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)** Intensive study in an area of interest in political science. An individual study plan approved during the first two weeks of the semester and presentation of results in an arranged seminar are required. 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 the instructor.
- 4774. 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 1103, 3523, 3533, 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 1103 or 3413 or permission of the instructor.
- 4803. Politics of the Emerging Nations. (3-0-3) Su.** A comparative survey of the politics, policies and problems of the emerging nations in Africa, Asia, the Middle East and Latin America. Prerequisite: One 3000-level course in comparative government and politics or permission of the instructor.
- 4821, 4822, 4823. International Policy Issues. (3-0-1 each course) S.** An analysis of contemporary world problems from the point of view of different nation-states. Students will help select the issues. (Courses offered consecutively: 4821 for five weeks, 4822 for five weeks, and 4823 for five weeks. Students may register for any one, two, or all three of the courses in the same semester.) Prerequisite: Nine semester hours in political science or permission of the instructor.
- 4831, 4832, 4833. National Policy Issues. (3-0-1 each course) Su, F.** An analysis of policy positions of national political groups on contemporary national problems. (Courses offered consecutively: 4831 for five weeks, 4832 for five weeks, and 4833 for five weeks. Students may register for any one, two, or all three of the courses in the same semester.) Prerequisite: Nine semester hours in political science 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.
- 4894. Government Budgeting and Taxation. (3-2-4) S.** A study of how and why federal tax revenues are allocated to various programs; an examination of federal and state taxation policies. Prerequisite: Political Science 3413 or permission of 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 the 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) S.** 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.

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) S.** 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 3513, 3523, 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.
- 5133. Seminar in Political Problems of Asia and the Middle East. (3) F.** An in-depth examination of selected political problems of Asia and the Middle East. Prerequisite: Nine semester hours of political science or permission of the instructor.
- 5173. Seminar in Congressional Politics. (3) F.** The study of individual and group political behavior in the United States Congress through reading, discussion and individual research. Prerequisite: Political Science 3743 or permission of the instructor.
- 5533. Seminar in Political Modernization. (3) F-odd numbered years.** 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-even numbered years.** 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.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.
- 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/or 5950 and/or 5997.

- 5997. Study Abroad. (3 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

PSYCHOLOGY

UNDERGRADUATE COURSES

- 2310. Introduction to Psychology I. (3-0-3)** The first half of a survey of methods, concepts and principles of psychology to cover the following topics: History, Scientific Method, Development, Learning, Memory, Motivation, Emotion, Personality, and Abnormal.
- 2320 (2340). Introduction to Psychology II. (3-0-3)** The second half of a survey of methods, concepts and principles in psychology to cover the topics: Sensation, Perception, Physiological, Thinking, Intelligence, Industrial, Social, and Therapy. Prerequisite: Psychology 2310.
- 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. Credit is not given for both Psychology 2610 and 3800.
- 3310. Physiological Psychology. (2-4-4) 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, S.** 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 the development of 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. (3-0-3)** 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.
- 3690. Controversial Topics in Psychology. (3-0-3)** Exploration of special interest or controversial topics in psychology as: hypnosis, drugs and behavior, transcendental meditation, gay liberation, biofeedback, and ESP. Prerequisite: Psychology 2310.
- 3800. Research Methods. (4-0-4)** A practical introduction to elementary statistics and research design, emphasizing how-to-understand research. Prerequisites: Psychology 2310 and 2320. Credit is not given for both Psychology 3800 and 2610.
- 3810. Experimental Psychology: Learning. (2-4-4)** 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, 2320, and 2610.
- 3820. Experimental Psychology: Perception. (2-4-4)** Su, S. Study of the development and organization of perception in man. Provides opportunity to conduct demonstrations and experiments. Prerequisites: Psychology 2310, 2320, and 2610.
- 3900. Independent Study in Psychology. (Arr.-Arr.-1-6)** Admission and assignment of problems by arrangement. Laboratory, reading and weekly conference. Prerequisite: Fifteen semester hours in psychology and/or permission of the instructor. Limited to six hours.
- 3990. Summer Studies in Ireland and Britain. (Arr.-Arr.-6)** Su. Independent research in psychology, Six weeks of residence in the Republic of Ireland or Britain 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. Prerequisite: Fifteen semester hours in psychology.
- 4590. Psychology Seminar. (3-0-3)** F, S. Specific area within the discipline will be given intensive study through lectures, readings, reports, and discussion. The topic for each semester will be announced in advance by the chairman of the department. Prerequisite: Senior standing with major or minor in psychology. May be taken twice for credit with permission of the chairman of the department.
- 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.
- 4760. Personality Assessment I: Foundations and Behavioral Assessment. (3-0-3)** Theoretical approaches to personality assessment, including Rational-Theoretical, Empirical, Internal Consistency and Behavioral approaches. Student develops competencies in behavioral assessment, including time-series designs, direct observation skills, interviewing, etc. Prerequisites: Psychology 3590; 3600 or 3601; or permission of the instructor.
- 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 Psychology 4780 and 3270.
- 4840. The Clinical Psychologist. (3-0-3)** Clinical psychology procedures and their application in the practice of psychology in community and family services, penal institutions, and mental health agencies. Prerequisites: Psychology 3590 and 3601 or permission of the instructor.

- 4850. Psychological Intervention. (4-0-4) F.** A comprehensive survey of psychological intervention theories along with practical and realistic guidelines for psychological interventions in personal, family, legal, and organizational crises. Prerequisite: 20 semester hours in psychological or related areas.
- 4870. Social Psychology. (3-0-3)** A study of individual behavior and psychological processes in social settings. Prerequisite: Psychology 2310.
- 4880. Advanced Statistics in Psychology. (3-0-3) Su, S.** Analysis of variance techniques in experimental design. Prerequisite: Psychology 2610 or equivalent.
- 4890. Psychological Evaluation of Pre-School Children. (3-0-3)** The psychological evaluation of pre-school children: measuring cognition, language, perceptual-motor processes, and social-emotional development. Prerequisites: Psychology 3500 and 3601 or equivalents.

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.)

Students pursuing the M.A. in Psychology may concentrate in one of the following areas: Clinical, School, Experimental, or General Psychology. An appropriate program of study in the chosen concentration is developed by the student and his or her advisor, with approval by the Psychology Department and the Graduate School. More information is available from the Psychology Department.

- 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, 3601 or 4780 or equivalents.
- 5015 (4790). Individual Intelligence Testing. (3-0-3)** Advanced study of individual intelligence tests; practice in administration and interpretation. Prerequisites: Psychology 2310 and 3601.
- 5020. Psychological Measurements: Projective Techniques. (3) Su, F.** Study of perceptual personality tests: practice in administration and interpretation. Prerequisites: Psychology 3590 and 4780 or equivalents.
- 5030. The School Psychologist. (2) S.** An introduction into the activities of the school psychologist. Prerequisite: Concentration in school psychology.
- 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.** Concepts and procedures utilized in behavior therapy; special emphasis on systematic desensitization, assertiveness training, modeling, and contingency management.
- 5170 (5620). Theories of Learning. (3) S.** A survey and comparison of theories of learning. Prerequisite: Psychology 3620 or permission of the instructor.
- 5250 (5700). Motivation. (3) F.** An introduction to theory and research related to biological and psychological motivation. Prerequisite: Psychology 3310 or permission of the instructor.
- 5260 (5710). Comparative Psychology. (3) Su.** A comparison of psychological processes in various forms of animal life, including man. Prerequisite: Permission of the instructor.
- 5360 (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. Psychology 3310 recommended.

- 5370 (5820). Advanced Experimental II. (4) Su, S.** Lecture/Lab. Basic laboratory techniques and instrumentation involved in the study of learning. Emphasizes original experimentation. Prerequisite: Psychology 3810 or 3820 or permission of the instructor. Psychology 3310 recommended.
- 5540. Psychological Processes in the Aged. (3)** An in-depth study of age related changes, in the elderly, in such psychological processes as learning, memory, sensation, perception, intelligence, adjustment, and personality. Prerequisites: Psychology 2310 or permission of the instructor.
- 5550. Community Psychology. (3) Su, S.** 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.
- 5610. Research Methods. (3)** Introduction to style of research reporting; survey of types and designs of research; and statistical analysis of data. Prerequisite: Psychology 2610 or equivalent.
- 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: 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. May be repeated.
- 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 the 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. Introduction to Recreation for Special Populations Only. (3-0-3)** Program planning and conduct of diverse recreational activities for physically and mentally handicapped, aged, and institutionalized persons.
- 2280. Organization and Administration of Playgrounds. (2-0-2) F, S.** Administrative procedures 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. A required field experience will be arranged.
- 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)** A study of the approved techniques for out-of-door living and recreation with opportunity for the student to develop skills in these areas.
- 3830. Organization and Administration of Park and Recreation Programs. (3-0-3) F, S.** 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.
- 4410. Internship. (Arr.-Arr.-4 to 8)** A field experience to include full time assignment to an established recreation program. Prerequisite: Recreation 3550.
- 4741. Independent Study. (Arr.-Arr.-1-6)** An individual study under faculty supervision of practical experience of independent study 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)** 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)** 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) F, S.** The educational philosophy of school recreation; function of administrative personnel; units of participation; scheduling; conduct of intramural and school recreation programs.
- 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.
- 4850. Financial Practices for Public and Private Recreation Agencies. (3-0-3) F, S.** The investigation of the financial structures, resources, and budget developments for public and private recreation agencies.
- 4900. Maintenance and Operation of Parks. (3-0-3)** A study of methods and materials necessary for the operation and maintenance of recreation parks and other outdoor recreation areas. Information considered will involve a non-scientific approach to such areas as horticulture and agronomy, landscaping, paving, construction and maintenance operation.

SECONDARY EDUCATION

UNDERGRADUATE COURSES

- 3000. Levels I and II: Alternate Secondary Education Program. (2-3-3) Pass-Fail.** Competency based program for secondary teachers. Prerequisite: Psychology 2310.
- 3100. Level III: Alternate Secondary Education Program. (3-5-3) Pass-Fail.** Competency based program for secondary teachers. 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: Alternate Secondary Education Program. (Arr.-Arr.-14) Pass-Fail.** Competency based program for secondary teachers. Prerequisite: Secondary Education 3100.
- 4330. Secondary Education Methods. (3-0-3) F.** Teaching in the secondary school: planning, techniques of teaching, classroom management, student and teacher evaluations, professionalism, employment, media skills, and innovations in education. Prerequisite: Acceptable credit in educational psychology, and permission of the department chairman.
- 4741. Independent Study. (Arr.-Arr.-1-3)** May be repeated for a total of 6 semester hours credit. Prerequisite: Permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Strategies of Adult Instruction. (3-0-3)** Methods, techniques, and devices in adult education, developing action oriented learning situations, programmed instruction, developing appropriate materials and evaluating the outcome of courses.
- 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.
- 4850. Seminar and Field Experiences in Adult Education. (2-6-4)** A supervised experience in an adult educational operation which will allow the student to apply his skills and training to teaching adults. A follow-up of these experiences and other specific areas and topics will be given further study through readings, reports, and group discussions. Prerequisite: Secondary Education 4751, approval by the chairman of the department and acceptance by a cooperating adult education organization.

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.

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 of mechanisms and social control. Prerequisite: Sociology 2710.
- 2761 (3761). Introduction to Criminology. (3-0-3)** 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.
- 3600. Introduction to Social Work. (3-0-3)** A survey of principles, techniques, and fields of social work. Prerequisite: Sociology 2710.
- 3610 (4611). Statistical Analysis of Social Data. (3-0-3) F, S.** 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.
- 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) Su, S.** Analysis of transitory phenomena, including publics, audiences, crowds, mobs, riots, and social movements. Prerequisite: Sociology 2710.
- 3780. Policing Society: A Sociological Analysis. (3-0-3)** A critical sociological analysis of the role of being a policeman and an analysis of the social and organizational structure of police organizations in a democratic society. Prerequisites: Sociology 2710 and 2761.
- 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.
- 3903. Sex Roles and Social Change. (3-0-3) S.** A sociological and anthropological study of women's roles, the evolutionary development of female and male roles, the roles of women and men in non-literate societies, and problems of women in the changing socio-cultural environment of the modern world.
- 3990. Summer Studies in Ireland and Britain. (Arr.-Arr.-6) Su.** Independent research in sociology. Six weeks of residence in the Republic of Ireland or Britain will be required. Prerequisite: Sociology 2710 and junior or senior standing.
- 4080. Internship in Sociology. (Arr.-Arr.-3 or 6 or 9 or 12).** A semester experience or an intern in an agency or organization relevant to the student's option. The course will be offered on pass-fail basis; however, the total hours must not exceed 12 hours including courses taken in any other internship offered by the University. Prerequisites: Senior standing, permission of the chairman of the department, and acceptance of the student by the agency or organization involved.
- 4251. The Sociology of Education. (3-0-3) S.** 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.
- 4622. Research Methods for Collecting Social Data. (3-0-3) F, S.** Surveys social scientific methods developed to collect data in human populations. Stresses importance of problem formulation, research design and interpretation. Prerequisites: Sociology 2710, 3610.
- 4702. Sociology of Medicine. (3-0-3) F.** 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) Su, S.** 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) S.** Advanced study of theories of etiology, treatment and prevention. Prerequisites: Sociology 2710, 2761 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, 2761 or permission of the instructor.
- 4790. The Correctional Process: A Sociological Analysis. (3-0-3)** Provides an understanding of the entire field of correctional systems, in terms of its official objectives, its actual effects and effectiveness including special focus on experimental programs. Prerequisites: Sociology 2710 and 2761.

- 4800. Sociological Aspects of Gerontology. (3-0-3) F.** 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. May be taken twice for credit. 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) F.** Consideration of the major contemporary sociological theories and conceptual orientations.
- 5070. Advanced Research Methods in the Social Sciences. (3) S.** 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 3610 and 4622.
- 5100. Social Organization. (3) F.** 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) F.** 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) S.** Analysis of the techniques to facilitate orderly growth and redevelopment of the total community, including the study of both social and environmental problems.
- 5700. Advanced Criminology. (3) F.** Seminar exploring recent innovations in the criminal justice system. Prerequisites: Sociology 4750 and 4770, or their equivalents.
- 5800. Social Change. (3) S.** 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) S.** 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) S.** 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) S.** Individual pursuit of study selected by the student in collaboration with an instructor. *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. (3-0-3)** 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.
- 3350. The Child with Learning Disabilities. (3-0-3)** This course will deal with the nature and characteristics of pupils with learning disabilities.
- 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, Special Education 3300, and 4770.
- 3660 (4660). The Socially and Emotionally Maladjusted Child. (3-0-3)** A study of the nature and characteristics of socially and emotionally maladjusted children including causes, treatment, identification, and educational planning.
- 4741. Independent Study. (Arr.-Arr.-1-3)** May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Educational Assessment of the Pre-School Child. (3-0-3) Su.** The nature and characteristics of young handicapped children and the study of identification and assessment techniques for teachers of pre-school children. Prerequisite: Special Education 2500 or concurrent enrollment.
- 4760. Educating the Pre-School Handicapped Child. (3-0-3) Su.** Special need of the pre-school handicapped child. Teaching techniques and curriculum modifications related to perceptual, conceptual, and language abilities, and to the development of the self-concept. Prerequisite: Special Education 4750 or substitute recommended.
- 4770. Diagnosis of the Educationally Handicapped. (3-2-4)** Course deals with means and methods of diagnosing the educable mentally handicapped, learning disabled, and socially and emotionally maladjusted. Includes essentials of psycho-educational testing, formal and informal instruments of assessment, and interpretation of results. Prerequisites: Special Education 2500; 3300 or 3350 or 3660 or permission of the chairman of the department.
- 4880. Teaching the Socially and Emotionally Maladjusted. (3-0-3)** Remedial methods of teaching the socially and emotionally maladjusted. Prerequisites: Special Education 3660 and 4770 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 2500, 3300, and 4770 or permission of the chairman of the department.
- 4970. Vocational Development for the Handicapped Student. (3-0-3) S.** A study of vocational orientation, work orientation, vocational programming and job placement for the handicapped student. Prerequisite: Junior standing; enrolled in or employed in special education and/or vocational education programs.
- 4990. Remediation of Learning Disabilities. (3-0-3)** 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, 4770, 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) F, S. The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.
- 2170 (3170). Oral Communication Theories.** (3-0-3) F. Historical survey of major theorists and theories.
- 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) F, S. Study of the responsibility of the advocate in investigation and analysis of evidence; structure of argument; reasoning and refutation.
- 2520. Introduction to Mass Communications (Broadcasting).** (3-0-3) 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) F. 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.
- 2830 (3830). 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.
- 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.
- 3200. Speech Criticism.** (3-0-3) S. 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) S. Principles and techniques of audience analysis, topic analysis and preparation, communication theories, and performance and evaluation. Prerequisites: 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) F.** Film as the expression of the performers and technicians. Critical discussion of the film form and content.
- 3540. Television Production. (2-3-3) 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.
- 3900 (4900). Directing Forensic Activities. (3-0-3) F, S.** Designed to prepare those entering the field of speech education on the secondary and college levels to direct an extracurricular forensics program. Prerequisites: Speech-Communication 2320 and 2340.
- 3990. Summer Studies in Ireland and Britain. (Arr.-Arr.-6) Su.** Independent research in speech communication. Six weeks of residence in the Republic of Ireland or Britain will be required. Prerequisite: Junior or senior standing.
- 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) F.** 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) S.** Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.
- 4996. Problems in Teaching Speech. (3-0-3)** 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)** 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.

- 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.
- 5450. The Nature and Problems of Mass Communication. (3) Analysis** of problems resulting from the use of the mass media as channels of communication. Emphasis on the decision making process within the media, the media's function as channel for information, the media's function as channel for persuasion, and the media's role in the support or change of cultural norms.
- 5580. Theories of Leadership in Communication. (3) Su, F.** 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.
- 5760. Laboratory in Human Interaction. (3) S.** Practical application of major communication theories. Prerequisite: Speech Communication 4760 or 2830 or permission of the 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/or 5990 and/or 5997.
- 5990. Independent Study. (1 to)** 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/or 5950 and/or 5997. Prerequisite: Permission of the chairman of the department.
- 5997. Study Abroad. (3 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

SPEECH PATHOLOGY AND AUDIOLOGY

UNDERGRADUATE COURSES

- 0201. Communication I for International Students. (3-2-4) (Offered on demand)** 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) (Offered on demand)** 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) S.** 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.
- 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) Su, S.** 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) F.** 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.
- 3651 (5651). Aural Rehabilitation I. (2) S.** Study of rehabilitation for the hard-of-hearing. Prerequisite: Speech Pathology and Audiology 3600 or permission of the instructor.
- 4700. Clinical Practice. (Arr.-Arr.-1 to 3)** Supervised work with a variety of speech and hearing defects; 18 clock hours per semester hour's credit. Prerequisite: Speech Pathology and Audiology 2800, 2830; permission of the chairman of the department. Permission may be denied if the student has not attained a 2.5 overall grade point average and a 2.75 grade point average in the Speech Pathology and Audiology major.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750 (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.
- 4755 (5900). Introduction to Graduate Study in Speech Pathology and Audiology. (4-0-4) Su, F.** Introduction to research methodology and experimental design. Prerequisite: Permission of the instructor.

- 4760 (5600). Audiometry. (3-0-3) 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.
- 4770 (5250). Language Disturbances. (2-0-2) 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 5015 or permission of the instructor.
- 4780 (5370). Voice Disorders. (2-0-2) S.** Advanced study of etiology and correction of functional and organic voice problems. Voice pitch, quality, and intensity. Prerequisite: Speech Pathology and Audiology 3300.
- 4790 (5410). Stuttering. (3-0-3) 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.
- 4800. Speech Correction for the Classroom Teacher. (3-0-3) F, S.** 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.)

- 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.
- 5430 (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, 3651, 4760.
- 5440 (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.
- 5470 (5700). Advanced Clinical Practice. (1 to 8)** 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.
- 5480 (5920). Research Procedures in Speech Science. (3) Su.** Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology. Prerequisite: Speech Pathology and Audiology 4755.
- 5490 (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.
- 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 leadership with emphasis on the development of leadership skills, governance in higher education, the administration of Eastern Illinois University, student government, and the student's role in governance.

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. (Arr.-Arr.-1)** F, S.
4302. Teaching Practicum. (Arr.-Arr.-2) F, S.
4304. Teaching Practicum. (Arr.-Arr.-4) F, S.
4308. Teaching Practicum, (Arr.-Arr.-8) F, S.

TECHNOLOGY EDUCATION

UNDERGRADUATE COURSES

- 1293 (Industrial Arts 1293). Industrial Crafts. (1-4-3)** Development, concepts, and selected processes in various craft media; recreation, special education and consumer oriented.
- 1413 (Industrial Arts 1412). Technological Systems. (3-0-3)** Introduction to the study of the technological areas (production, communications, energy). To include the evolution and current status of each area as well as demonstrating the interrelationship of all three areas.
- 2023 (Industrial Arts 2023). Fabrication Drafting Analysis. (2-2-3)** F. Drafting techniques, methods and standards in industrial fabrication. Prerequisite: Technology Education 2114 or Industrial Technology 1043.
- 2064 (Industrial Arts 1063 and 1213). Materials and Processes. (2-4-4)** A study of the basic materials and processes used in industry. Emphasis on separating, forming, and combining processes. Prerequisite: Technology Education 1413 or permission of the instructor.
- 2114 (Industrial Arts 1013 & 1113). Communications Technology. (2-4-4)** Basic concepts of orthographic and pictorial graphics through graphic reproduction. Emphasis on interrelationship of graphic communications. Prerequisite: Technology Education 1413 or permission of the instructor.

- 2183 (Industrial Arts 2163 and 2173). Semi-conductor and Vacuum Tube Principles. (2-2-3) F.** Comparative analysis of the operating principles and characteristics of vacuum tubes and solid state devices. Prerequisites: Industrial Technology 1162, Technology Education 2324 or permission of the instructor.
- 2223 (Industrial Arts 2223). Basic Fabrication of Woods. (1-4-3) S.** Power woodwork equipment and mass production. Prerequisite: Technology Education 2064.
- 2242 (Industrial Arts 2242). Primary Grade Technology Education. (1-2-2)** Industrial arts activities as a teaching device in the primary grades. Emphasis on career, occupational awareness and special education preparation.
- 2252 (Industrial Arts 2252). Intermediate Grade Technology Education. (1-2-2)** Industrial Arts activities as orientation to industry manufacturing, etc., with laboratory experiences. (Consumer, career, and special education emphasized.)
- 2292. Recreational Crafts. (0-4-2) S.** Laboratory experience in advanced level crafts work. Each course offering will be devoted to a specific craft. Prerequisite: Technology Education 1293 or permission of the instructor.
- 2324 (Industrial Arts 1163 and 1323). Energy Technology (2-4-4)** Study of the processing, converting, transmitting and controlling of energy sources including mechanical, fluidic and electrical; energy sources, with emphasis on laboratory development. Prerequisite: Technology Education 1413 or permission of the instructor.
- 3013 (Industrial Arts 3013). Architectural Planning and Analysis. (2-2-3) S.** Cost factors in home construction, styles, planning and selection of materials.
- 3023 (Industrial Arts 3023). Architectural Drafting and Design. (1-4-3) S.** Principles of house construction, construction details, working drawings, and specifications.
- 3033 (Industrial Arts 3033). Production Drafting and Design. (2-2-3) S.** Comprehensive study of uses and construction of production drawings in graphic communication. Prerequisite: Technology Education 2114 or Industrial Technology 1043.
- 3064 (Industrial Arts 3063). Metal Machining Processes. (1-4-4). F.** Study of processes involved in lathe, mill, shaper, drills, surface grinder operations. Prerequisite: Technology Education 2064.
- 3073. Production Systems. (0-6-3) S.** A study of the necessary systems for designing, planning and producing the finished product. Prerequisites: Technology Education 1413, 2064 or permission of the instructor.
- 3083 (Industrial Arts 3082). Advanced Metal Processes. (0-6-3) S.** Comprehensive metal processes involving casting, grinding, chipless machine operation, numbered control and equipment selection. Prerequisite: Technology Education 3064.
- 3114 (Industrial Arts 2123 and 3123). Copy Preparation. (2-4-4) F.** Graphic and photodesign, image assembly, proofing, pasteup. Single and multicolor. Prerequisite: Technology Education 2114 or permission of the instructor.
- 3122. Monotonal and Color Photography. (2-4-2) F.** Black and white photography including the processing of film, darkroom techniques from basic enlarging through special effects. Color transparency experience also.
- 3132. Monotonal and Color Photoconversion. (2-4-2) S.** Line and halftone exposure and control. ROP color separation and proofing. Prerequisite: Technology Education 3122 or permission of the instructor.
- 3313 (Industrial Arts 3313). Electrical and Chemical Power. (3-0-3) F.** Sources of electrical and chemical power, batteries, electromatic, generators. Prerequisite: Industrial Technology 1162.
- 3322 (Industrial Arts 3322). Power Transmission. (2-0-2) S.** Comprehension of design and methods of transmitting power by hydraulics, pneumatics and mechanical unit. Prerequisite: Technology Education 2324.

- 3354 (Industrial Arts 2353 and 4313). Engine Systems. (2-4-4) F.** Study of the systems used on gasoline, diesel and turbine engines, including lubrication, cooling, fuel, ignition, air and pollution, charging and starting systems. Prerequisite: Technology Education 2324 or permission of the instructor.
- 3400 (Industrial Arts 3400). Methods of Teaching Industrial Arts. (3-0-3)** Teaching techniques and the selection and organization of industrial material. Prerequisites: Four courses in technology education.
- 4094 (Industrial Arts 4093). Welding Technology. (2-4-4) F.** Study of gas and electric welding.
- 4113 (Industrial Arts 4113). Graphic Communications for Journalists. (2-2-3) S.** Contemporary graphic communications in community press media. Emphasis on character generation, photo sensitive materials, offset reproduction techniques. Open to journalism majors and minors only.
- 4124 (Industrial Arts 4763). Offset Lithography. (2-4-4) S.** Film assembly, proofing, image carrier preparation, offset lithography, and finishing. Auxiliary activities in raised surface/finishing. Prerequisite: Technology Education 2114 or permission of the instructor.
- 4223 (Industrial Arts 4223). Mass Fabrication in Woods. (0-6-3) S.** In-depth study of mass production techniques in the wood industry. Prerequisite: Technology Education 2223.
- 4470 (Industrial Arts 4470). Independent Study. (Arr.-Arr.-1-5)** Technical investigation involving written research and laboratory experimentation. Prerequisite: Permission of the instructor.
- 4480 (Industrial Arts 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

- 4932 (Industrial Arts 4932). Organization of Subject Matter. (Arr.-Arr.-2) S.** Advanced work in preparation of instructional materials. Prerequisite: Technology Education 3400.
- 4953 (Industrial Arts 4953). Student Achievement and Program Evaluation. (3-0-3) S.** Comprehensive study of techniques of evaluation and criteria for program evaluation. Prerequisite: Technology Education 3400.
- 4973. Readings in Technology. (3-0-3) F.** An examination of past, present, and futuristic views of technology. Emphasis to be placed on the development of technology in the areas of production, communications, and energy systems.

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 (Industrial Arts 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 Technology Education. A student may take the course for credit in only one of the departments.
- 5060 (Industrial Arts 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 Technology Education. A student may take the course for credit in only one of the departments.

- 5070 (Industrial Arts 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 Technology Education. A student may take the course for credit in only one of the departments.
- 5080 (Industrial Arts 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 Technology Education. A student may take the course for credit in only one of the departments.
- 5090 (Industrial Arts 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 Technology Education. A student may take the course for credit in only one of the departments.
- 5153. Technical Developments in Technology. (3) F.** A study of the past, present, and anticipated landmark technical developments in technology. The student is expected to concentrate his/her study in one of the areas of technology (production, communications, energy).
- 5163. Contemporary Problems in Technology. (3) S.** A study of the technical and socio-cultural problems resulting from the human effort to develop, improve, and utilize new and improved methods of producing goods and services.
- 5653 (Industrial Arts 5652). History and Philosophy of Technology Education. (3) F.** Sociological principles, theories, and beliefs which have contributed to present educational theory.
- 5723 (Industrial Arts 5722). Issues and Trends in Technology Education. (3) S.** Comprehensive investigation of current experimental and established programs.
- 5800. Seminar in Technology. (1-4)** Reports and discussions of selected topics in technology. May be taken more than once but no more than four semester hours may count toward the major.
- 5803 (Industrial Arts 5803). Facility Planning in Technology Education. (3) S.** Study facilities and equipment needs for teaching technology education, opportunity is provided for planning new laboratories and redesigning established laboratories.
- 5950 (Industrial Arts 5950). Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990 (Industrial Arts 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.

THEATRE ARTS

UNDERGRADUATE COURSES

- 1101, 1102. Theatre Practicum. (Arr.-Arr.-1 each course) 1101-F; 1102-S.** 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.

- 2000. Rehearsal, Performance and Crew. (Arr.-Arr.-1)** May be repeated for a maximum of 3 semester hours credit. Actual participation in theatrical productions.
- 2001.** (See Fine Arts 2001).
- 2002 (3002).** (See Fine Arts 2002).
- 2003.** (See Fine Arts 2003).
- 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 or 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.
- 3001, 4001. 5 O'Clock Theatre. (0-Arr.-1 for each course)** A theatre arts major will direct a workshop production in his junior and senior year.
- 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.
- 3344. Advanced Acting. (3-3-3)** The theory and concept of acting in various periods and styles. Prerequisite: Theatre Arts 2244 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.
- 3360. Stage Lighting. (3-3-3)** Explores basic skills and techniques in lighting theatrical productions. Prerequisite: Theatre Arts 3357 or permission of the instructor.
- 3398. Oral Interpretation of Afro-American Literature. (3-0-3) F-odd numbered years.** A study of all modes of Afro-American literature through the medium of oral performance.
- 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.
- 3500. Independent Study. (Arr.-Arr.-1 to 3)** Problems in theatre arts in which the student works under the supervision of a staff member. Prerequisite: Permission of the instructor and the chairman of the department.
- 3751 (4751). Theatre History to 1650. (3-0-3) Su, F.** 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) Su, S.** The history of the theatre and its literature from the middle of the Seventeenth Century to present.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4810. Summer Theatre. (Arri-Arr.-6 or 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)** Su, F. A study of structures and their evolution in chordates. Laboratory work with a variety of forms. Prerequisite: Zoology 1010.
- 2200. Embryology. (2-4-4)** Su, S. 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.
- 2999 (3000). Human Physiology. (2-2-3)** A study of the basic physiological principles is followed by experimental studies of the organ-systems of man. May not be substituted for Zoology 3100.
- 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.
- 3300. Vertebrate Natural History. (2-2-3)** The natural history of vertebrates including distribution, reproduction, economic importance, evolution, and classification. Prerequisite: Zoology 1010.
- 3600. Parasitology. (2-2-3)** Su, F. 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)** Su, F. 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 chairman prior to registration. Prerequisite: Cumulative grade point average of 2.50 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.
- 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 2100 and 2200 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 and 4540 recommended.
- 4760. Invertebrate Zoology. (2-2-3) S-odd numbered years.** The phylogeny, morphology, physiology, and biology of invertebrate animals. Prerequisite: Sixteen semester hours of zoology.
- 4764 (5260). Invertebrate Field Studies. (2-3-3) S-even numbered years.** Identification, relationships, life histories and adaptations of regional invertebrates not covered fully in other courses. Aquatic and soil forms emphasized. Prerequisite: Zoology 1010.
- 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) Su, F.** 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 identification, classification, distribution, and natural history of midwestern birds. Prerequisite: Zoology 3300.
- 4777. Mammalogy. (2-2-3) F.** A study of mammals with emphasis on classification, distribution, natural history and ecology. Prerequisite: Zoology 2000 or 2100, 3300.
- 4800. Terrestrial Ecology. (2-3-3) Su, S.** Interrelationships among animal populations, biotic communities, and physical environments in terrestrial ecosystems. Prerequisites: Life Science 2010 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.
- 4850. Comparative Vertebrate Physiology. (2-2-3) F.** A comparison of physiological activities in fish, amphibians, reptiles, birds and mammals exhibited in their natural environment. Prerequisites: Zoology 3100; one course in organic chemistry and biochemistry recommended.

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. Zoogeography. (2) F.** Analysis of the geographical distribution of recent animals. Prerequisite: Zoology 4800 or Botany 4811.
- 5100 (5900). Introduction to Graduate Study and Research. (2) Su, 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.
- 5150. Seminar. (1)** Enrollment required twice for all graduate students. A maximum of three semester hours credit may be applied to a 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. Prerequisite: Sixteen semester hours of biological science.
- 5235. Paleozoology. (3) F.** Laboratory and field studies of animal life of the past. Prerequisites: Sixteen semester hours in zoology; Zoology 4760 recommended.
- 5255. Protozoology. (3) F.** The morphology, physiology, ecology and life histories of free living and parasitic protozoa. Includes laboratory and field studies. Prerequisite: Eight semester hours of zoology.
- 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 principles of animal behavior. 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.
- 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 Semester, 1975, through Summer Term, 1976

UNIVERSITY

Full-Time, On Campus		Fall	Spring	Summer
Seniors:	Men	788	910	409
	Women	873	848	406
	Total	1661	1758	815
Juniors:	Men	949	941	184
	Women	886	872	244
	Total	1835	1813	428
Sophomores:	Men	771	721	118
	Women	846	858	130
	Total	1617	1579	248
Freshmen:	Men	1250	974	146
	Women	1499	1210	159
	Total	2749	2184	305
Graduates: Fifth Year	Men	302	294	327
	Women	159	166	305
	Total	461	460	632
Sixth Year	Men	13	15	46
	Women	9	11	26
	Total	22	26	72
Total: (full-time)	Men	4073	3855	1230
	Women	4272	3965	1270
	Total	8345	7820	2500

Part-Time, On Campus		Fall	Spring	Summer
Seniors:	Men	40	51	106
	Women	28	29	91
	Total	68	80	197
Juniors:	Men	18	18	28
	Women	30	30	46
	Total	48	48	74
Sophomores:	Men	9	13	16
	Women	15	16	39
	Total	24	29	55
Freshmen:	Men	14	16	25
	Women	43	44	36
	Total	57	60	61
Graduates: Fifth Year	Men	173	179	85
	Women	199	196	112
	Total	372	375	197
Sixth Year	Men	43	63	32
	Women	37	45	22
	Total	80	108	54
Totals: (part-time)	Men	297	340	292
	Women	352	360	346
	Total	649	700	638
Total On Campus	Men	4370	4195	1522
	Women	4624	4325	1616
	Total	8994	8520	3138
Full-Time Equivalent (resident)		8584	8075	2854

Off Campus		Fall	Spring	Summer
	Men	451	508	284
	Women	434	364	243
	Total	885	872	527
Total University		Fall	Spring	Summer
	Men	4821	4703	1806
	Women	5058	4689	1859
	Total	9879	9392	3665
Total Full-Time Equivalent		8938	8354	3175

SUMMARY OF DEGREES AWARDED

September 1, 1975, through August 31, 1976

Degree	Dec. 1975	May 1976	Aug. 1976
Specialist in Education	7	17	15
Master of Arts	32	58	60
Master of Business Administration	5	24	7
Master of Science	19	37	32
Master of Science in Education	43	72	116
Master of Science in Library Science	—	3	5
Bachelor of Arts	115	276	94
Bachelor of Arts — Board of Governors Degree	38	72	42
Bachelor of Music	4	21	12
Bachelor of Science	119	291	150
Bachelor of Science in Business	55	178	63
Bachelor of Science in Education	96	171	41
Total	533	1220	637



XII. FACULTY, 1976-77

EASTERN ILLINOIS UNIVERSITY

Charleston

(Date of joining staff in parentheses)

ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

President

Daniel E. Marvin, Jr., Ph.D., Virginia Polytechnic Institute (1977)¹

Martin Schaefer, Ph.D., University of Iowa (1958)
(Acting)²

ACADEMIC AFFAIRS

Provost and Vice President for Academic Affairs

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

William J. Keppler, Ph.D., University of Illinois,
Assistant to Vice President (1965)³

¹Beginning February 15, 1977.

²From September 1, 1976 to February 15, 1977.

³Resigned January 31, 1977.

COLLEGE OF ARTS AND SCIENCES

- Lawrence A. Ringenberg, Ph.D., The Ohio State University, Dean (1947)
Paul F. Kirby, Ph.D., University of Pittsburgh, Assistant Dean (1964) (Sabbatical leave)
Sharon Pearson, Ph.D., University of Illinois, Acting Assistant Dean (1972)
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, Health Professions Studies (1955)
Leonard Durham, Ph.D., University of Illinois, Director, Division of Life Sciences (1955)

GRADUATE SCHOOL AND RESEARCH

- Kenneth E. Hadwiger, Ph.D., University of Oklahoma, Dean (1964)
William W. Scott, Ph.D., University of Michigan, Associate Dean (1968)
Jimmie Franklin, Ph.D., University of Oklahoma, Coordinator of Faculty Research (1970)

SCHOOL OF BUSINESS

- Thomas O. Jones, Jr., D.B.A., George Washington University, Dean (1974)
Kathleen Anne Bennett, B.S.Ed., Eastern Illinois University, Assistant to Dean (1974)

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)
Robert Zabka, Ph.D., Northwestern University, Director of Student Teaching (1964)

Center for Educational Studies

- Harry J. Merigis, Ed.D., University of Oklahoma, Director (1954)
Charles L. Joley, Ed.D., University of Illinois, Assistant Director (1970)
Dale D. Downs, Ed.D., Indiana University (1963)
Donald L. Rogers, D.Ed., University of Nebraska (1963)

SCHOOL OF FINE ARTS

- Vaughn Jaenike, Ed.D., University of Nebraska, Dean (1974)
Phillip Settle, M.F.A., University of Illinois, Assistant to Dean (1957)
Rodney Buffington, M.S. in Ed., Eastern Illinois University, Director of Gallery (1969)

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

Walter S. Lowell, Ed.D., Michigan State University, Dean (1961)

William McCabe, M.A., University of Iowa, Assistant to Dean (1962)

SCHOOL OF HOME ECONOMICS

Mary Ruth Swope, Ed.D., Columbia University, Dean (1962)

Barbara L. Owens, Ed.S., Eastern Illinois University, Assistant to Dean (1969)

SCHOOL OF TECHNOLOGY

Donald P. Lauda, Ph.D., Iowa State University, Dean (1975)

LIBRARY SERVICES

B. Joseph Szerenyi, D.Pol.S., Elizabeth University, Hungary, Director (1967) (Sabbatical leave, spring semester)

Paladugu V. Rao, M.S.L.S., University of Illinois, Acting Director (1968) (spring semester)

CONTINUING EDUCATION AND COMMUNITY SERVICES

George Hackler, Jr., M.S.Ed., Eastern Illinois University, Director (1967)

Dan Hockman, Ph.D., University of Illinois, Assistant Director (1965)

Donald McKee, M.A.T., University of Illinois, Assistant (1961)

Debra Hutton, B.A., Eastern Illinois University, Academic Adviser (1975)

COOPERATIVE EDUCATION

Leonard Wood, Coordinator, Ph.D., University of Pennsylvania (1960)

Jane M. Ziegler, Assistant Coordinator (1976)

AUDIO-VISUAL CENTER

Gene Scholes, Ph.D., Southern Illinois University, Director (1966)

Willis Waltman, Ed.S., Eastern Illinois University, Instructional Designer (1969)

Floyd Landsaw, Ed.D., Indiana University, Instructional Designer (1965)

BOARD OF GOVERNORS DEGREE PROGRAM

Donald F. Tingley, Ph.D., University of Illinois, Coordinator (1953)

VOCATIONAL-TECHNICAL EDUCATION

Charles L. Joley, Ed.D., University of Illinois, Director (1970)

SPECIAL PROJECTS

- Robert S. Baran, B.S., Eastern Illinois University, Research Assistant, U.S.A. Construction Engineering Research Laboratory Project (1976)
- Diane Blair, B.S., University of Oregon, Associate, Occupational Education Coordinator's Handbook Project, and Director, Combining Activities with Real Experiences Project (1975)
- Joyce Felstehausen, M.S.Ed., Eastern Illinois University, Director, Personalized Approach to Guidance Excellence Project (1972)
- A. Jane Johnson, Assistant to Project Director, Nutrition for Elderly Project (1976)
- Dorothy M. Lawson, M.S.Ed., Eastern Illinois University, Director, Career Exploration/Occupational Information Project (1969)
- Susan Malcom, M.S., University of Illinois, Assistant Director, Nutrition for Elderly Project (1976)
- Dorothea McDonald, M.S.Ed., Eastern Illinois University, Assistant, Career Exploration/Occupational Information Project (1976)
- Carol Sanders, M.S.Ed., Eastern Illinois University, Director, Occupational Education Coordinator Handbook Project (1972)
- JoAnn Schavey, B.A., Central Michigan University, Assistant Director, Nutrition for Elderly (1976)
- Mary Jean Staub, B.S., Eastern Illinois University, Research Assistant, U.S.A. Construction Engineering Research Laboratory Project (1976)
- Michael L. Strader, B.S.Ed., Eastern Illinois University, Director, Nutrition for Elderly Project (1976)
- Janet Treichel, M.S.Ed., Eastern Illinois University, Associate Director for Personalized Approach to Guidance Excellence Project (1971)
- Sharon Wiesemann, B.S.Ed., Eastern Illinois University, Assistant, Personalized Approach to Guidance Excellence Project (1975)

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)¹
- Calvin B. Campbell, Adv. C., University of Illinois, Director (1966)²
- Thomas E. McDevitt, M.A., Southern Illinois University, Advisor (1966)
- Robert G. Winkleblack, M.S.Ed., Eastern Illinois University, Advisor (1966)
- Janet F. Holley, M.S.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.Ed., Western Illinois University, Advisor (1972)

¹Retired December 3, 1976.

²Effective January 1, 1977.

Community College Relations

Samuel J. Taber, Ph.D., Southern Illinois University, Dean, Director

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)

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)

ADMISSIONS AND HIGH SCHOOL RELATIONS

Murray R. Choate, M.S.Ed., Southern Illinois University, Director of High School Relations (1962)

Roger L. Haberer, M.S.Ed., Eastern Illinois University, Associate Director, Admissions (1972)

John J. Hivko, Jr., M.S., Western Illinois University, Admissions Counselor (1974)

Pamela Hadwiger, M.S.Ed., Eastern Illinois University, Admissions Counselor (1974)

ARRANGEMENTS

Phillip Lindberg, B.S., Eastern Illinois University, Director (1973)

CAREER PLANNING AND PLACEMENT

James F. Knott, Ed.D., Northern Illinois University, Director (1957)

Robert E. Jones, M.S., Indiana State University, Assistant Director (1963)

COUNSELING AND TESTING SERVICES

Herbert C. Bartling, M.S.Ed., University of Texas, Acting Director (1969)

John E. Grimes, Jr., Ph.D., University of Arizona, Counseling Psychologist (1968)

David T. Baird, M.S.Ed., Indiana University, Counselor (1959)

Claud D. Sanders, Ed.D., University of Illinois, Counselor (1966)

FINANCIAL AIDS

- Sue C. Sparks, M.S.Ed., Eastern Illinois University, Director (1966)
John T. Flynn, M.S.Ed., Eastern Illinois University, Associate Director, (1976)
Lois M. Kramer, M.A., Boston University, Administrative Assistant (1966)
Elmer Pullen, M.S., Eastern Illinois University, Counselor (1970)

HEALTH SERVICES

- Jerry D. Heath, M.D., University of Illinois, Director (1956)
Harvey H. Pettry, M.D., Chicago Medical School, University Physician (1975)
Lee A. Steward, M.D., University of Illinois, University Physician (1975)

INTERNATIONAL STUDENTS

- Eulalee Anderson, M.S.Ed., Eastern Illinois University, Advisor (Part-time) (1973)

STUDENT ACTIVITIES AND ORGANIZATIONS

- William L. Clark, M.S.Ed., Eastern Illinois University, Director (1968)

STUDENT PERSONNEL SERVICES

- Mary P. Rogers, Ed.D., Indiana University, Associate Dean (1966)
James E. Johnson, M.A., New York University, Assistant Dean (1970)

UNIVERSITY UNION

- Herbert L. Brooks, B.S.Ed., Eastern Illinois University, Director (1966)
James R. Benedict, B.S. in Business, Eastern Illinois University, Assistant Director (1976)
Stephen Grove, B.S. in Bus., Eastern Illinois University, Assistant Director (1972)

VETERANS SERVICES

- William D. Miner, Ph.D., Indiana University, Director (1950)

STUDENT HOUSING

- Louis V. Hencken, M.S.Ed., Eastern Illinois University, Director (1967)
Terrence J. Webb, M.A., University of North Dakota, Associate Director (1972)
Richard G. Enochs, Ed.S., Eastern Illinois University, Assistant Director, and Director, Married Student Housing (1969)
Mary M. Smith, M.S., Indiana University, Assistant Director (1970)

Residence Hall Food Service

Beverly Sterling, M.S.Ed., Eastern Illinois University, Director (1972)

Residence Hall Counselors

Jo Anne Stuebe, M.S.Ed., Eastern Illinois University (1962) (On leave)
Barbara A. Busch, Adv.C., University of Illinois (1964)
Doris J. Enochs, M.S.Ed., Eastern Illinois University (1967)
Margaret J. Reed, Adv.C., University of Illinois (1967)
Diane E. deLaet, M.Ed., University of Miami (1971) (On leave)
Keith Kohanzo, M.S.Ed., Eastern Illinois University (1971)
Harry Nicklaus, M.S., Bowling Green State University (1973)
Albert P. Henry, M.Ed., Springfield College (1975)
Randall L. Johnson, M.S.Ed., Eastern Illinois University (1975)
Martha L. Alsgaard, M.S., Indiana State University (1976)
L. Fraun Lewis, B.A., Eastern Illinois University (1976)
Ted J. Phillips, M.Ed., University of Virginia (1976)
Earl E. Ritchie, M.S.Ed., Eastern Illinois University (1976)
Joe H. Schwarz, M.Ed., Colorado State University (1976)
Annette Strack, M.A., University of Missouri-Columbia (1976)

BUSINESS SERVICES

Vice President for Business Services

Harley J. Holt, M.S., University of Wisconsin (1963)
Marion L. Zane, M.S.Ed., Eastern Illinois University, Controller (1965)
Everett R. Alms, Superintendent of Physical Plant (1965)
T. Michael Sanders, M.B.A., Eastern Illinois University, Internal Auditor (1975)

ADMINISTRATIVE AFFAIRS

Vice President for Administrative Affairs

Martin Schaefer, Ph.D., University of Illinois (1958)
Wayne S. Owens, Ed.D., Indiana University (1969) (Acting)¹
John Morrissey, M.S.Ed., Eastern Illinois University, Budget Officer, (1968)
Robert H. Weidhuner, B.A., Southern Illinois University, Assistant, Administrative Studies (1966)
Barbara S. Platt, B.A., Purdue University, Assistant, Administrative Studies (1976)

COMPUTER SERVICES

Roland D. Spaniol, Ph.D., The University of Iowa, Director (1960)
Nancy J. Crewell, M.A., Eastern Illinois University, Assistant (1971)

AFFIRMATIVE ACTION

Gloria Ceide-Echevarria, Ph.D., University of Illinois, Director (1965)

¹ From September 1, 1976 to February 15, 1977.

ATHLETICS

Mike Mullally, M.A., University of South Dakota, Director (1974)

Ronald Paap, A.M., University of Northern Colorado, Assistant to Director (1963)

Helen J. Riley, M.S.Ed., Illinois State University, Associate Director (1965)

UNIVERSITY RELATIONS AND SPECIAL SERVICES

UNIVERSITY RELATIONS AND ALUMNI SERVICES

Kenneth E. Hesler, M.Ed., University of Illinois, Director (1951)

Harrison Read, B.S.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)

Herbert Alexander, M.S., Wichita State University, Instructor, Chemistry (1977)

Richard H. Alexander, M.B.A., Eastern Illinois University, Instructor, Management-Marketing. (1974) (Part-time)

Deborah Allen-Baber, A.M., University of Illinois, Instructor, English. (1976)

Henry Amato, Ph.D., Tulane University, Associate Professor, Management-Marketing. (1975)

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, Professor, Zoology. (1966)

David P. Appleby, Ph.D., Indiana University, Professor, Music. (1971)

Mary B. Armstrong, Ph.D., University of Illinois, Associate Professor, Speech Pathology and Audiology. (1968)

Charles B. Arzeni, Ph.D., University of Michigan, Associate Professor, Botany. (1965)

Mary E. Atchison, M.S.Ed., Eastern Illinois University, Assistant Professor, Physical Education. (1969)

Dennis W. Aten, M.S.Ed., Eastern Illinois University, Assistant Professor, Physical Education. (1968)

D. Ferrel Atkins, Ph.D., University of Kentucky, Professor, Mathematics. (1958)

Alan R. Aulabaugh, Ph.D., The University of Iowa, Professor, Music. (1957)

B

Jununa Bai, Ph.D., Wayne State University, Associate Professor, Sociology-Anthropology. (1967)

- Zeno E. Bailey, Ph.D., The Ohio State University, Professor, Botany. (1969)
- Frederick D. Baker, Ph.D., University of Georgia, Assistant Professor, Accountancy, Data Processing and Finance. (1975)
- Weldon N. Baker, Ph.D., Columbia University, Professor, Chemistry. (1958)
- Wesley E. Ballsrud, M.A., The University of Iowa, Associate Professor, Accountancy, Data Processing and Finance. (1964)
- Robert Barford, Ph.D., Indiana University, Associate Professor, Philosophy. (1968)
- Lawrence W. Bates, Ph.D., University of Texas, Assistant Professor, Economics. (1970)
- Kandy Baumgardner, Ph.D., Utah State University, Assistant Professor, Zoology. (1973)
- John Beall, Ph.D., Eastman School of Music, Assistant Professor, Music. (1976)
- Steven A. Becker, Ph.D., The University of Iowa, Associate Professor, Botany. (1968)
- Randall H. Best, Ph.D., Southern Illinois University, Associate Professor, Psychology. (1968)
- Mary A. Bialek, M.Ed., Pennsylvania State University, Assistant Professor, Music. (1969)
- Cyrus E. Blair, D.Ed., University of Oregon, Associate Professor, Elementary, Special and Junior High School Education. (1970)
- Clarence Blanchette, M.A., The University of Iowa, Assistant Professor, Theatre Arts. (1973)
- David N. Block, Ph.D., New York University, Assistant Professor, English. (1972) (On leave)
- Paul G. Bodine, M.A., Washington University, Assistant Professor, Art. (1966)
- Daniel J. Bolin, M.S.Ed., University of Illinois, Assistant Professor, Health Education. (1970)
- Mark R. Bomball, Ph.D., University of Mississippi, Associate Professor, Accountancy, Data Processing and Finance. (1969)
- Fred J. Bouknight, Ed.D., Columbia University, Professor, Music. (1959)
- Earl W. Boyd, Ph.D., The University of Iowa, Professor, Music. (1947)
- Karen J. Braun, M.F.A., Temple University, Assistant Professor, Art. (1968) (Sabbatical leave, spring semester)
- Suzan G. Bruan, 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, Professor, Physics. (1963)
- James M. Brinkman, Ed.D., University of Illinois, Professor, Music. (1970)
- Benjamin Brooks, Ed.D., University of New Mexico, Associate Professor, Elementary, Special and Junior High School Education. (1976)
- Ewen L. Bryden, Ph.D., The Ohio State University, Associate Professor, Recreation and Leisure Studies.* (1969) (Sabbatical leave)
- David H. Buchanan, Ph.D., University of Wisconsin, Associate Professor, Chemistry. (1971)
- William F. Buckellew, Ed.D., University of Arkansas, Professor, Physical Education.* (1962)
- Rodney Buffington, Ed.S., Eastern Illinois University, Assistant Professor, Art and Education. (1969)
- 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

- Joseph E. Carey, Ed.D., Indiana University, Professor, Elementary, Special, and Junior High School Education. (1958)
- Robert A. Carey, P.E.D., Indiana University, Professor and Coordinator of Graduate Studies, Physical Education. (1953)

- Gerald F. Carr, Ph.D., University of Wisconsin, Professor, Foreign Languages. (1968)
- William B. Cash, Ph.D., Purdue University, Associate Professor, Speech-Communication. (1964) (On leave)
- Judith K. Chapman, B.S., The Ohio State University, Faculty Assistant, Home Economics. (1973)
- Max K. Chapman, Ph.D., Kent State University, Assistant Professor, Zoology. (1972)
- 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, Ph.D., Indiana University, Associate Professor, Library. (1968)
- Yung Ping Chen, Ph.D., University of Maryland, Professor, Political Science. (1966)
- Guang-Meei Cheng, Ph.D., University of Notre Dame, Instructor, Economics. (1976)
- Marge A. Ciaravino, M.F.A., University of Michigan, Instructor, Physical Education. (1976)
- Ronald H. Clinton, M.Ed., University of Arizona, Lecturer, Physical Education. (1974)
- William M. Cloud, Ph.D., University of Wisconsin, Professor, Physics. (1962)
- 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, Technology. (1957)
- Joseph T. Connelly, Ed.D., University of Illinois, Professor, Political Science. (1958)
- Lewis H. Coon, Ed.D., Oklahoma State University, Professor, Mathematics. (1965)
- George K. Cooper, Ph.D., University of Michigan, Professor, Business Education and Administrative Office Management. (1962)
- Edward M. Corley, Ph.D., Oklahoma State University, Associate Professor, Economics. (1967)
- Delmar Crabill, Ph.D., University of Illinois, Associate Professor, Mathematics. (1963)
- John M. Craft, M.S., Eastern Illinois University, Instructor, Physical Education. (1970)
- Francis H. Craig, Ph.D., Southern Illinois University, Associate Professor, Elementary, Special and Junior High School Education. (1957)
- William J. Crane, Ph.D., Yale University, Professor, Educational Psychology and Guidance. (1961)
- Laurence E. Crofutt, M.A., Indiana University, Assistant Professor, Botany. (1967)
- Joyce S. Crouse, Ph.D., Southern Illinois University, Professor, Home Economics. (1968) (Sabbatical leave, spring semester)
- 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) (Sabbatical leave, spring semester)

D

- Roger L. Darding, Ph.D., University of Illinois, Assistant Professor, Botany. (1970)
- Janina K. Darling, A.M., University of California, Berkeley, Instructor, Art. (1976)
- M. Marise Daves, Ed.D., New York University, Professor, Physical Education. (1955)
- Joyce E. David, Adv. C., University of Illinois, Assistant Professor, Physical Education. (1968)
- A. Douglas Davis, Ph.D., University of California, Los Angeles, Assistant Professor, Physics. (1970)
- Garret W. DeRuijter, M.F.A., Southern Illinois University, Associate Professor, Art. (1965)

- Suhrit K. Dey, Ph.D., Mississippi State University, Associate Professor, Mathematics. (1970)
- Alphonso J. DiPietro, Ph.D., George Peabody College for Teachers, Professor, Mathematics.* (1959)
- Patrick J. Docter, Ph.D., Purdue University, Associate Professor, Zoology. (1969)
- Betty Dodson, M.A., St. Louis University, Instructor, Speech Pathology and Audiology. (1974)
- Ernest E. Dolson, Ph.D., University of Illinois, Associate Professor, Mathematics and Education. (1968)
- Donald Dolton, M.A., Oklahoma State University, Assistant Professor, English. (1966)
- Earl Doughty, Ph.D., Southern Illinois University, Professor, Elementary, Special and Junior High School Education. (1963)
- Ruth L. Dow, M.S., University of Illinois, Instructor, Home Economics. (1969)
- Dale D. Downs, Ed.D., Indiana University, Associate Professor, Elementary, Special and Junior High School Education. (1963)
- Martha I. Drew, Ph.D., Northern Colorado University, Professor, Management-Marketing. (1958) (On leave)
- 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)**
- David C. Dutler, Ph.D., Southern Illinois University, Assistant Professor, Recreation and Leisure Studies (1976)
- Genevra Dvorak, M.S.Ed., Eastern Illinois University, Assistant Professor, English. (1964)

E

- Hannah N. Eads, M.S.Ed., Eastern Illinois University, Assistant Professor, Art. (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. (1968)
- William F. Egloff, Ph.D., Northwestern University, Professor, Management-Marketing. (1975)
- Snowden L. Eisenhour, Ph.D., University of Illinois, Professor, Physics. (1961)
- E. Duane Elbert, Ph.D., Indiana University, Associate Professor, History. (1966) (Sabbatical leave)
- Carol E. Elder, Ph.D., University of Pittsburgh, Associate Professor, English. (1966)
- 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, Professor, Chemistry. (1966)
- Walter L. Elmore, M.A., University of Kentucky, Associate Professor, Physical Education and Education. (1948)
- Carl E. Emmerich, D.Ed., The Pennsylvania State University, Professor, Art. (1962)
- Ruth Erckmann, M.A., University of South Dakota, Assistant Professor, Mathematics. (1963)
- Clifford H. Erwin, D.Ed., Indiana University, Professor, Technology. (1956) (Sabbatical leave, spring semester)

F

- Paul R. Fahy, Ph.D., University of Connecticut, Assistant Professor, Economics. (1976)
- Marilyn L. Faris, Ph.D., Indiana State University, Assistant Professor, Elementary, Special and Junior High School Education. (1974)

- John R. Faust, Ph.D., University of North Carolina, Professor, Political Science. (1966)
- Joyce Felstehausen, M.S.Ed., Eastern Illinois University, Assistant Professor, Career Occupations. (1977)
- Karen Ferguson, Ph.D., Bryn Mawr College, Assistant Professor in Chemistry. (1974)
- John H. Ferterl, M.S.Ed., Eastern Illinois University, Instructor, Technology. (1977)
- Paul A. Filter, Ed.D., University of Nebraska, Associate Professor, Secondary Education and Foundation. (1970) (On leave)
- Melinda Fischer, M.S., Illinois State University, Instructor, Physical Education. (1976)
- Russell D. Fischer, Ed.D., North Texas State University, Instructor, Physical Education. (1976)
- Patricia Flaughter, M.S., Southern Illinois University, Assistant Professor, Physical Education and Education. (1969)
- M. Lorraine Flower, Ph.D., University of Oregon, Professor, Physical Education. (1965)
- Thomas W. Floyd, Ed.D., University of Illinois, Professor, Elementary, Special and Junior High School Education. (1967)
- 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)
- Delbert D. Foust, Adv. C., University of Illinois, Assistant Professor, Elementary, Special and Junior High School Education. (1964)
- Frank A. Fraembs, M.S., University of Illinois, Assistant Professor, Zoology. (1964)
- Jimmie L. Franklin, Ph.D., University of Oklahoma, Associate Professor, History. (1970) (Sabbatical leave, spring semester)
- Gerald E. Fuller, M.A., Eastern Illinois University, Instructor, Mathematics. (1976) (Fall)
- Jill M. Fulton, M.S., Eastern Illinois University, Instructor, Speech Pathology and Audiology and Education. (1976)
- Richard C. Funk, Ph.D., University of Kansas, Associate Professor, Zoology. (1965)

G

- E. G. Gabbard, Ph.D., The University of Iowa, Professor, Theatre Arts.* (1947)
- Lucina P. Gabbard, Ph.D., University of Illinois, Associate Professor, English. (1968) (Sabbatical leave, spring semester)
- Walter C. Garland, Ph.D., The Ohio State University, Professor, School Service Personnel. (1968)
- Donald P. Garner, Ph.D., Wayne State University, Professor, Speech-Communication (1963)
- Jerry Geisler, Ph.D., University of Missouri-Columbia, Associate Professor, Management-Marketing. (1975)
- Ronald E. Gholson, Ph.D., Southern Illinois University, Assistant Professor, Secondary Education and Foundation. (1976)
- James F. Giffin, Ph.D., Northwestern University, Professor, Management-Marketing. (1947)
- Michael A. Goodrich, Ph.D., Pennsylvania State University, Professor, Zoology. (1964)
- Evelyn T. Goodrick, M.A., Kent State University, Instructor, English. (1976)
- Richard P. Goodrick, Ph.D., Southern Illinois University, Associate Professor, Political Science. (1976)
- Gerald L. Gossett, M.S., Indiana State University, Instructor, Physical Education. (1969)
- John Goveia, Ph.D., Northern Illinois University, Assistant Professor, Management-Marketing. (1975)
- Timothy D. Gover, M.S., University of Illinois, Assistant Professor, Management-Marketing. (1963)
- Louis M. Grado, Ph.D., The University of Iowa, Professor, Elementary, Special and Junior High School Education.* (1955)
- James M. Grant, J.D., St. Louis University, Lecturer, Management-Marketing. (1976) (Part-time)

- 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, Adv. C., University of Illinois, Assistant Professor, Physical Education. (1966)
- William E. Green, Ph.D., The Ohio State University, Professor, Management-Marketing. (1966)
- Raymond V. Griffin, Ed.D., University of Northern Colorado, Professor, Technology and Education. (1958)
- Jerry Griffith, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1966)
- John R. Griffith, Jr., Ph.D., University of Kansas, Associate Professor, Management-Marketing. (1975)
- Waldo Grigoroff, M.S. in Ed., University of Illinois, Assistant Professor, History and Social Sciences and Education. (1961)
- Karl M. Grisso, M.L.S., Indiana University, Assistant Professor, Library. (1969)
- John C. Guckert, Ph.D., The Ohio State University, Associate Professor, Secondary Education and Foundation. (1968)
- Gary L. Gueldner, M.S.Ed., Eastern Illinois University, Assistant Professor, Accountancy, Data Processing and Finance. (1967)

H

- Claudia L. Hale, Ph.D., University of Illinois, Instructor, Speech-Communication. (1976)
- Lavern M. Hamand, Ph.D., University of Illinois, Professor, History. (1957)
- Martha T. Hamand, A.B., University of Illinois, Faculty Assistant, English. (1964) (Part-time, Fall)
- 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)
- Burton E. Hardin, D.M.Ed., University of Oklahoma, Associate Professor, Music. (1969)
- Stanley G. Harris, M.A., University of Missouri, Assistant Professor, Foreign Languages. (1968)
- Charles R. Harrison, M.A., University of Oklahoma, Assistant Professor, Speech-Communication. (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. (1947)
- Betty R. Hartbank, M.S.L.S., University of Illinois, Assistant Professor, Library. (1956)
- Evelyn H. Haight, Ph.D., University of Illinois, Associate 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)
- Joseph P. Helbling, M.S., Eastern Illinois University, Instructor, Psychology. (1975)
- Edward J. Helies, B.A., William and Mary, Lecturer, Physical Education. (1975)
- Carol M. Helwig, Ed.D., University of Illinois, Associate Professor, Elementary, Special and Junior High School Education. (1969)
- Willa M. Hemmons, Ph.D., Case Western Reserve University, Assistant Professor, Sociology-Anthropology. (1973)
- Laura M. Hencken, M.S.L.S., Eastern Illinois University, Instructor, Library. (1976)
- Giles L. Henderson, Ph.D., Indiana University, Associate Professor, Chemistry. (1966)
- Robert E. Hennings, Ph.D., University of California, Berkeley, Professor, History.* (1962)
- Joseph K. Heumann, M.A., University of Iowa, Assistant Professor, Speech-Communication. (1976)

- Harvey Hewett, Ph.D., University of Houston, Associate Professor, Management-Marketing. (1976)
- Billy J. Heyduck, D.Ed., Pennsylvania State University, Associate Professor, Art. (1966)
- William M. Hillner, Ph.D., University of Georgia, Assistant Professor, Psychology. (1976)
- Harold L. Hillyer, M.M., University of Southern California, Assistant Professor, Music. (1972)
- Arnold J. Hoffman, M.S., University of Illinois, Associate Professor, Chemistry. (1945)
- Arthur C. Hoffman, Ph.D., University of Illinois, Professor, Accountancy, Data Processing and Finance.* (1966)¹
- Bertrand P. Holley, M.A., Northwestern University, Associate Professor, Management-Marketing. (1946)
- Charles Hollister, Ph.D., University of Pennsylvania, Professor, Political Science. (1967) (Sabbatical leave, spring semester)
- Gary L. Holt, Ph.D., West Virginia University, Assistant Professor, Psychology. (1972)
- Mildred F. Holt, M.Ed., University of Maryland, Assistant Professor, Elementary, Special and Junior High School Education. (1975)
- Janet M. Hooks, Ph.D., University of Illinois, Professor, Economics. (1963)
- Richard L. Hooser, Ph.D., Southern Illinois University, Associate Professor, Health Education. (1965)
- Jon J. Hopkins, Ph.D., Pennsylvania State University, Professor, Speech-Communication. (1956)
- Stephan M. Horak, Ph.D., University of Erlangen, Professor, History. (1965)
- Allan L. Horney, M.S., University of Illinois, Assistant Professor, Music. (1974)
- Nai-chao Hsu, Ph.D., Washington University, Professor, Mathematics. (1966)
- Glen E. Hubele, Ph.D., University of Illinois, Associate Professor, Educational Psychology and Guidance. (1968) (Sabbatical Leave)
- Richard L. Hummel, Ph.D., Indiana University, Assistant Professor, Sociology-Anthropology. (1969)
- Lawrence B. Hunt, Ph.D., University of Wisconsin, Professor, Zoology. (1967)
- Robert W. Hussey, D.Ed., University of Northern Colorado, Professor, Physical Education. (1958)
- Frank. E. Hustmyer, Ph.D., University of Cincinnati, Professor, Psychology. (1969)
- Virginia W. Hyett, A.M., University of Missouri, Assistant Professor, Art. (1944)

I

- Bill V. Isom, M.S.Ed., Southern Illinois University, Assistant Professor, Library. (1964)
- Donald Ivory, M.S., Central Missouri State, Lecturer, Physical Education. (1974)¹

J

- Ann E. Jackson, D.Ed., Arizona State University, Professor, Elementary, Special and Junior High School Education. (1958)
- Gordon L. Jackson, M.A., Eastern Michigan University, Assistant Professor, English. (1970)
- Louise Jackson, M.A., Eastern Michigan University, Instructor, Psychology. (1973)
- Vaughn Jaenike, Ed.D., University of Nebraska, Professor, Music. (1974)
- Judith James, M.A., University of North Carolina, Instructor, Zoology. (1973) (Part-time)
- William S. James, Ph.D., University of Tennessee, Associate Professor, Zoology. (1970)
- Samuel W. Jenkins, Ph.D., Louisiana State University, Associate Professor, Sociology-Anthropology. (1975)
- Robert A. Jensen, M.S., Eastern Illinois University, Faculty Assistant, Athletics. (1975)¹

¹Department Chairman beginning spring semester, 1977

²Resigned December 31, 1976.

³Resigned January 31, 1977.

- Charles H. Johnson, J.D., University of Wisconsin, Associate Professor, Management-Marketing. (1967)
- Dorothe L. Johnson, Adv. C., University of Illinois, Assistant Professor, Recreation and Leisure Studies. (1968)
- June Johnson, D.M.A., University of Illinois, Professor, Music. (1960)
- Barbara Joley, M.S.Ed., Eastern Illinois University, Instructor, Elementary, Special and Junior High School Education. (1968)
- Annie Lee Jones, Ph.D., University of Michigan, Assistant Professor, Recreation and Leisure Studies. (1972)
- Austin Jones, M.B.A., Eastern Illinois University, Assistant Professor, Accountancy, Data Processing and Finance. (1969) (On leave)
- Ronald E. Jones, M.A., Ball State University, Instructor, Technology. (1975)
- George H. Jones, D.Phil., Oxford University, Professor, History. (1966)
- Thomas O. Jones, Jr., D.B.A., George Washington University, Professor, Management-Marketing. (1974)
- 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)
- Robert H. Karraker, Ph.D., Iowa State University, Associate Professor, Chemistry. (1967)
- Tom Katsimpalis, Ed.D., University of Northern Colorado, Professor, Physical Education. (1959)
- Richard L. Keiter, Ph.D., University of Maryland, Associate Professor, Chemistry. (1969)
- John J. Kelleher, Ph.D., University of Pittsburgh, Professor, English. (1964)
- Charles Keller, D.C., 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)
- Nancy O. Keppler, M.S., University of Illinois, Instructor, Home Economics. (1968) (Part-time)¹
- William J. Keppler, Ph.D., University of Illinois, Professor, Zoology. (1965)²
- Rhoderick E. Key, M. Mus. Ed., Southern Illinois University, Assistant Professor, Music.* (1966)
- Ha Poong Kim, Ph.D., Boston University, Associate Professor, Philosophy. (1967)
- Paul F. Kirby, Ph.D., University of Pittsburgh, Professor, Foreign Languages. (1964) (Sabbatical leave)
- William G. Kirk, M.A., Illinois State University, Assistant Professor, Psychology. (1975)
- Judd Kline, Ph.D., University of Minnesota, Professor, English. (1948)
- Edna Kniskern, M.S.Ed., Eastern Illinois University, Instructor, Zoology. (1954) (Part-time)
- Verne B. Kniskern, Ph.D., University of Michigan, Professor, Zoology. (1950)
- Cary I. Knoop, M.F.A., University of Illinois, Associate Professor, Art. (1953)
- Eric N. Koch, Ph.D., University of Illinois, Assistant Professor, Physics. (1972)
- Raymond L. Koch, Ph.D., University of Minnesota, Associate Professor, History. (1966)
- Mary Kogen, M.M. Northwestern University, Instructor, Music. (1976)
- Ronald Kogen, D.M., Northwestern University, Associate Professor, Music. (1975)
- Karl-Ludwig Konrad, M.A., University of Washington, Assistant Professor, Foreign Languages. (1970)
- John Konstantinos, M.Ed., Kent State University, Lecturer, Physical Education. (1975)
- Lloyd L. Koontz, M.A., University of Arkansas, Assistant Professor, Mathematics. (1963)
- Mary Krause, M.Ed., University of Oklahoma, Instructor, Elementary, Special and Junior High School Education. (1974) (Part-time)

¹ Resigned December 31, 1976.

² Resigned January 31, 1977.

- Paul Krause, Ph.D., University of Oklahoma, Assistant Professor, Geography and Geology. (1974)
- Eugene B. Krehbiel, Ph.D., Kansas State University, Professor, Zoology. (1963)
- James W. Krehbiel, Ph.D., Indiana University, Professor, Music. (1965)
- Claire E. Krukenberg, Ph.D., University of Illinois, Associate 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)
- Ellen C. Kylander, M.A., Eastern Illinois University, Instructor, English. (1976) (Fall)

L

- Oren F. Lackey, M.S., University of Illinois, Associate Professor, Botany. (1963)
- Clayton E. Ladd, Ph.D., University of Iowa, Professor, Psychology.* (1974)
- Jon M. Laible, Ph.D., University of Illinois, Associate Professor, Mathematics. (1964)
- Bert A. Landes, M.A.T., Colorado State University, Assistant Professor, Zoology. (1967)
- Floyd A. Landsaw, Ed.D., Indiana University, Associate Professor, School Service Personnel. (1965)
- Johnny L. Lane, M.M., Southern Illinois University, Instructor, Music. (1974)
- M. Marjorie Lanman, M.Ed., University of Illinois, Assistant Professor, Business and Education. (1961)
- Harry R. Larson, Ed.D., University of Northern Colorado, Associate Professor, Secondary Education and Foundation.* (1960)
- Herbert Lasky, 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)
- Donald P. Lauda, Ph.D., Iowa State University, Professor, Technology.* (1975)
- Robert Laursen, M.S., Northern Illinois University, Instructor, Technology. (1976) (Part-time) (Fall)
- Sherri L. Lawrence, M.A., Eastern Illinois University, Instructor, English. (1976) (Fall)
- Richard W. Lawson, Ph.D., Indiana University, Assistant Professor, Library Science. (1964)
- 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)
- Patrick M. Lenihan, Ph.D., University of Wisconsin, Associate Professor, Economics. (1967)
- Michael B. Leyden, D.Ed., University of Florida, Associate Professor, Elementary, Special and Junior High School Education. (1970)
- Maurice C. Libbey, M.S., Columbia University, Assistant Professor, Library. (1967)
- John W. Linn, Ph.D., University of Georgia, Associate Professor, Art.* (1967)
- Kathryn Lister, M.S., Eastern Illinois University, Instructor, Home Economics. (1977)
- Inez B. Livingston, Ph.D., The Ohio State University, Professor, Psychology. (1968)
- Jerome B. Long, Ph.D., Fordham University, Associate Professor, Philosophy. (1966)
- Walter S. Lowell, Ed.D., Michigan State University, Professor, Physical Education. (1961)
- Michael Lunt, M.S., University of Illinois, Instructor, Health Education. (1976) (Part-time)
- Jeffrey P. Lynch, M.A., University of Dayton, Instructor, English. (1976)

M

- Fred W. MacLaren, Ph.D., University of Oklahoma, Professor, Elementary, Special and Junior High School Education. (1961)
- Joanne Magalis, Ph.D., University of Illinois, Assistant Professor, Sociology-Anthropology. (1971)
- John N. Maharg, D. Ed., University of Illinois, Professor, Music. (1958)
- Harold A. Malehorn, Ph.D., Northwestern University, Associate Professor, Elementary, Special and Junior High School Education. (1970)
- Maurice W. Manbeck, Ph.D., University of Minnesota, Associate Professor, Psychology. (1957)
- Joseph M. Martin, M.M.Ed., East Carolina University, Assistant Professor, Music. (1969)
- Jacinto C. Martinez, M.S., East Texas State University, Assistant Professor, Zoology. (1966)
- Merrilie Mather, Ph.D., Boston University, Professor, English. (1951)
- Gerhard C. Matzner, Ph.D., Cornell University, Professor, School Service Personnel. (1955)
- David J. Maurer, Ph.D., The Ohio State University, Professor, History. (1962)
- Jamie A. Maya, Ph.D., University of Arizona, Associate Professor, Zoology. (1966)
- Patricia McAlister, D.Ed., Pennsylvania State University, Associate Professor, Home Economics. (1976)
- Leslie G. McBride, M.Ed., University of Missouri, Instructor, Health Education. (1976)
- William J. McCabe, M.A., The University of Iowa, Assistant Professor, Physical Education. (1962)
- Beryl F. McClerren, Ph.D., Southern Illinois University, Professor, Speech-Communication. (1964)
- Rita McCollum, M.A., Eastern Illinois University, Instructor, Psychology. (1976)
- Jacqueline McCullough, M.A., Indiana State University, Assistant Professor, Home Economics. (1972)
- 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)
- Harland G. McFarland, M.S., Southern Illinois University, Assistant Professor, Physical Education and Education. (1970)
- Margaret McGeever, Ed.D., Columbia University, Professor, Home Economics. (1975)
- Ralph Y. McGinnis, Ph.D., University of Denver, Professor, Speech-Communication. (1972)
- William P. McGown, Ph.D., University of Southern Mississippi, Associate 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 Foundation. (1953)
- Donald E. McMullen, M.A., Northern Illinois University, Assistant Professor, Management-Marketing. (1970) (On leave)
- Jerry W. McRoberts, M.A., University of Illinois, Assistant Professor, Art. (1963)
- J. Earl McSwain, M.A., University of Alabama, Assistant Professor, Speech-Communication. (1973)
- Robert E. Meier, Ph.D., University of Illinois, Professor, Management-Marketing. (1964)
- Harry J. Merigis, Ed.D., University of Oklahoma, Professor, Education. (1954)
- Floyd E. Merritt, Ph.D., The Ohio State University, Associate Professor, Speech-Communication. (1970)
- Douglas K. Meyer, Ph.D., Michigan State University, Associate Professor, Geography and Geology. (1970)
- Roy A. Meyerholtz, D.Ed., University of Northern Colorado, Associate Professor, Mathematics. (1961)

- Michael R. Middleton, M.S., Stanford University, Assistant Professor, Management-Marketing. (1975)
- 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)
- William D. Miller, Ph.D., The University of Iowa, Associate Professor, English. (1963)
- William D. Miner, Ph.D., Indiana University, Professor, History. (1950)
- 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, Management-Marketing. (1969)
- K. Franklin Moore, M.Ed., Miami University, Faculty Assistant, Athletics. (1976)
- Neil E. Moore, Ed.S., University of Northern Colorado, Assistant Professor, Physical Education. (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) (Sabbatical leave)
- Donald B. Morlan, Ph.D., Purdue University, Associate Professor, Speech-Communication.* (1969)
- James D. Motley, M.B.A., Eastern Illinois University, Instructor, Accountancy, Data Processing and Finance. (1973)
- John E. P. Mullally, M.A., Middlebury College, Assistant Professor, Foreign Languages. (1968)
- Jeffry L. Mullen, B.A., University of Iowa, Faculty Assistant, Recreation and Leisure Studies. (1976)
- Betty G. Muller, M.A., East Carolina College, Assistant Professor, Physical Education and Education. (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)
- Jack Murry, D.Ed., University of Illinois, Associate Professor, Business Education and Administrative Office Management. (1965)

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)
- Shirley W. Neal, Ph.D., University of Illinois, Associate Professor, English. (1968)
- Allen R. Neff, M.A., The Ohio State University, Assistant Professor, English. (1967)
- Howard F. Nelms, D.Ed., University of Northern Colorado, Assistant Professor, Technology. (1970)
- Karen K. Nelson, M.A., Appalachian State University, Instructor, Elementary, Special and Junior High School Education. (1977)
- James E. Nicely, Ph.D., Indiana University, Assistant Professor, Speech Pathology and Audiology. (1970)
- Lawrence R. Nichols, Ph.D., Duke University, Professor, History. (1962)
- Henry C. Nilsen, M.S., University of Illinois, Assistant Professor, Zoology. (1967)
- Carol J. Noland, M.S. Ed., Eastern Illinois University, Instructor, Home Economics. (1972)

- Janet L. Norberg, Ph.D., The University of Iowa, Professor, Speech-Communication. (1963)
- Harold D. Nordin, Ph.D., University of Illinois, Assistant Professor, Economics. (1967)
- John T. North, Ed.D., Indiana University, Associate Professor, Secondary Education and Foundation. (1970)

O

- Marilyn S. Oglesby, M.S.Ed., Eastern Illinois University, Assistant Professor, Management-Marketing. (1969)
- 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. (1969)
- John W. Oxley, M.B.A., Eastern Illinois University, Instructor, Accountancy, Data Processing and Finance. (1973) (On leave)
- S. Jayne Ozier, M.S.Ed., Eastern Illinois University, Instructor, Home Economics. (1970) (On leave)

P

- Ronald Paap, A.M., University of Northern Colorado, Assistant Professor, Physical Education. (1963)
- Raymond F. Padovan, M.S., Southern Illinois University, Assistant Professor, Physical Education. (1966)
- Nancy Sue Paule, M.A., Northern Illinois University, Instructor, Theatre Arts. (1976)
- Sharon Pearson, Ph.D., University of Illinois, Associate Professor, English. (1972)
- John Peck, M.A., University of Illinois, Instructor, Art. (1976)
- J. Robert Pence, Ed.D., University of Illinois, Professor, Music. (1951)
- Stuart L. Penn, Ph.D., Yale University, Professor, Philosophy. (1960)
- Kathryn R. Petersen, M.S.Ed., Eastern Illinois University, Instructor, Home Economics and Education. (1974)
- David A. Peterson, M.Ed., University of Illinois, Instructor, Technology. (1976) (Part-time)
- John C. Peterson, Ph.D., The Ohio State University, Associate Professor, Mathematics. (1969) (On leave)
- Nicholas C. Petridis, Ph.D., University of Chicago, Professor, Mathematics. (1966)
- Charles E. Pettypool, M.A., The Ohio State University, Assistant Professor, Mathematics. (1957)
- Gerald Pierson, M.S.Ed., Eastern Illinois University, Assistant Professor, History and Social Sciences and Education. (1963)
- Harold O. Pinther, M.S., University of Wisconsin, Assistant Professor, Physical Education. (1954)
- Frances M. Pollard, Ph.D., Case 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)
- John E. Price, M.M., University of Tulsa, Assistant Professor, Music. (1974)

Q

- Ruth S. Queary, M.S.Ed., Eastern Illinois University, Assistant Professor, Mathematics. (1961)
 Theodore K. Quinn, Ph.D., The University of Iowa, Assistant Professor, English. (1972)
 James R. Quivey, Ph.D., Northern Illinois University, Associate Professor, English.* (1969)

R

- Anola E. Radtke, M.M., Indiana University, Assistant Professor, Music and Education. (1964)
 Mushfequr Rahman, Ph.D., McGill University, Professor, Mathematics. (1967)
 Jack C. Rang, Ph.D., Northwestern University, Associate Professor, Theatre Arts and Speech Communication. (1969)
 Mary R. Rang, M.A., Eastern Illinois University, Instructor, Speech-Communication. (1973)
 Evelyn N. Ransom, Ph.D., University of Illinois, Assistant Professor, English. (1970) (On leave)
 Paladugu V. Rao, M.S.L.S., University of Illinois, Assistant Professor, Library.** (1968)
 Hugh C. Rawls, Ph.D., University of Alabama, Professor, Zoology. (1956)
 John J. Rearden, Ph.D., Oklahoma State University, Professor, Psychology. (1968)
 Phyllis L. Rearden, C.A.S., University of Illinois, Assistant Professor, Library. (1970)
 John D. Reed, M.A., University of Missouri, Assistant Professor, English. (1972)
 Martin A. Reed, M.S.Ed., Southern Illinois University, Instructor, Health Education and Education. (1975)
 Walter Reeland, M.S., Illinois State University, Instructor, Elementary, Special and Junior High School Education. (1976)
 James J. Reynolds, Ed.D., Indiana University, Associate Professor, School Service Personnel. (1969)
 Paula Reynolds, M.A., Baylor University, Instructor, English. (1973) (On leave)
 Jack J. Richardson, Ph.D., Southern Illinois University, Professor, Health Education.* (1965)
 Rachael G. Richardson, M.S.Ed., Eastern Illinois University, Assistant Professor, English. (1963)
 Bernie Ricono, M.S., Indiana University, Lecturer, Physical Education. (1972)¹
 Bill T. Ridgeway, Ph.D., University of Missouri, Professor, Zoology. (1966)
 Leta Ridgeway, M.S.L.S., Eastern Illinois University, Assistant Professor, Library. (1971)
 Harland A. Riebe, Ed.D., University of Colorado, Professor, Health Education. (1950)
 Garland T. Riegel, Ph.D., University of Illinois, Professor, Zoology. (1948) (Sabbatical leave, fall semester)
 Helen J. Riley, M.S.Ed., Illinois State University, Assistant Professor, Physical Education. (1965)
 Lawrence A. Ringenberg, Ph.D., The Ohio State University, Professor, Mathematics. (1947)
 John L. Roberts, Ph.D., The University of Iowa, Professor, Management-Marketing.* (1965)
 James H. Robertson, D.Ed., University of Illinois, Professor, Music and Education. (1956)
 Kathryn W. Robertson, M.S.Ed., Eastern Illinois University, Assistant Professor, English. (1965)
 John O. Robison, D.M.A., Stanford University, Assistant Professor, Music. (1976)
 Donald L. Rogers, D.Ed., University of Nebraska, Associate Professor, Secondary Education and Foundation. (1963)
 Richard E. Rogers, Ph.D., Indiana University, Associate Professor, English. (1969)

¹Resigned December 31, 1976.

- George W. Rommel, Ph.D., Northwestern University, Professor, English. (1953)
 Jerome J. Rooke, M.S., Northern Illinois University, Associate Professor, Accountancy, Data Processing and Finance. (1965)
 James T. Rudgers, B.S., State University College, Lecturer, Physical Education. (1975)¹
 Al G. Rundle, M.A., University of Denver, Assistant Professor, Speech-Communication. (1963)
 Wanda E. Ruyle, Adv. C., University of Illinois, Assistant Professor, Elementary, Special and Junior High School Education. (1969)

S

- Robert E. Saltmarsh, Ed.D., Indiana University, Associate Professor, Educational Psychology and Guidance. (1969)
 Rosanne Bryce Sanders, D.Ed., University of Northern Colorado, Professor, Business Education and Administrative Office Management. (1969)
 George P. Sanders, M.M., Yale University, Assistant Professor, Music. (1964)
 J. W. Sanders, Ed.D., University of New Mexico, Associate Professor, Physical Education. (1970)
 Karen J. Sanders, M.M., University of Wisconsin, Assistant Professor, Music. (1966)
 John E. Schaefer, M.S., University of Wisconsin, Assistant Professor, Physical Education. (1969)
 Lahron H. Schenke, Ed.D., Teachers College, Columbia University, Professor, Elementary, Special and Junior High School Education. (1963)
 Wolfgang T. Schlauch, Ph.D., University of Freiburg, Professor, History. (1969)
 George Schlinsog, D.Ed., University of Oregon, Professor, Elementary, Special and Junior High School Education. (1967)
 Joan K. Schmidt, M.S., Northern Illinois University, Assistant Professor, Physical Education. (1970)
 Gene W. Scholes, Ph.D., Southern Illinois University, Associate Professor, School Service Personnel. (1966)
 Frederick R. Schram, Ph.D., University of Chicago, Associate Professor, Zoology. (1968) (Sabbatical leave fall semester)
 Anthony E. Schwaller, Ph.D., Indiana State University, Assistant Professor, Technology. (1970)
 Renee Schwaller, B.S., Wayne State University, Faculty Assistant, Home Economics. (1975)
 Thomas E. Scism, Ph.D., University of North Carolina, Associate Professor, Political Science. (1970)
 Colonel W. Scott, M.S.Ed., Eastern Illinois University, Lecturer, Physical Education. (1968)
 Mary Elizabeth Scott, M.S.L.S., Columbia University, Associate Professor, Library. (1948)
 William W. Scott, Ph.D., University of Michigan, Professor, Botany. (1968)
 William J. Searle, Ph.D., Purdue University, Assistant Professor, English. (1976)
 Sabah S. Sedki, Ph.D., University of Northern Colorado, Associate Professor, Accountancy, Data Processing and Finance. (1975)
 Phillip M. Settle, M.F.A., University of Illinois, Assistant Professor, Art and Education. (1957)
 Carl N. Sexton, P.E.D., Indiana University, Professor, Health Education. (1966)
 Kathlene L. Shank, Ph.D., University of Illinois, Assistant Professor, Elementary, Special and Junior High School Education. (1970)
 Hussein S. Sharaway, Ph.D., University of California, Associate Professor, Management-Marketing. (1975)

¹Resigned January 31, 1977.

- Donna M. Shehorn, M.A., University of Illinois, Assistant Professor, Theatre Arts. (1974)
- Michael L. Shehorn, B.A., Eastern Illinois University, Faculty Assistant, Theatre Arts. (1977)
- Gloria Sheintuch, MA, University of Tel-Aviv, Instructor, English. (1976) (Part-time)
- Maurice D. Shepherd, M.A.T., Indiana University, Assistant Professor, Chemistry and Physics and Education. (1967)
- Marian H. Shuff, Ed.D., University of Kansas, Professor, Secondary Education and Foundation. (1966) (Sabbatical leave, spring semester)
- Robert V. Shuff, Ph.D., University of Minnesota, Professor, School Service Personnel. (1964)
- Carl E. Shull, Ph.D., The Ohio State University, Professor, Art. (1947)
- Richard J. Sidwell, Ph.D., University of Utah, Associate Professor, Economics. (1970)
- Henry Silverstein, M.L.S., M.A., New York University, Assistant Professor, English (1965)¹
- Delbert R. Simon, D.M.A., The University of Iowa, Professor, Music. (1969)
- Jeanne H. Simpson, M.A., University of Texas at Austin, Instructor, English. (1975)
- John M. Simpson, Ph.D., University of Texas at Austin, Assistant Professor, English. (1975)
- Allen W. Smith, Ph.D., Indiana University, Associate Professor, Economics. (1970)
- Calvin N. Smith, Ph.D., Purdue University, Professor, Speech-Communication. (1965)
- Catherine A. Smith, D.Mus., Florida State University, Professor, Music. (1949)
- Norman D. Smith, Ph.D., Indiana University, Associate 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) (Sabbatical leave, spring semester)
- Robert J. Smith, Ph.D., The University of Iowa, Professor, Chemistry. (1955)
- Carolyn Smith, M.N., Case Western Reserve University, Associate Professor, Health Education. (1952)
- Donald W. Smitley, Ed.D., University of Illinois, Associate Professor, School Service Personnel. (1970)
- John K. Snodgrass, Ph.D., University of Oklahoma, Professor, Health Education. (1974)
- Paula Snyder, B.S., Michigan State University, Faculty Assistant, Home Economics. (1973)
- Robert C. Snyder, D.M.A., University of Missouri, Associate Professor, Music. (1967)
- Robert E. Snyder, Ph.D., The University of Iowa, Associate Professor, Music. (1969)
- Margaret Soderberg, Ph.D., Washington University, Professor, Political Science.* (1962)
- Robert B. Sonderman, Ed.D., University of Missouri, Professor, Technology. (1956)
- Walter Sorge, Ed.D., Columbia University, Professor, Art. (1970)
- James B. Spalding, Ph.D., University of Illinois, Professor, Management-Marketing. (1976)
- Roland D. Spaniol, Ph.D., The University of Iowa, Professor, Management-Marketing. (1960)
- John M. Speer, Ph.D., The Ohio State University, Associate Professor, Botany. (1969)
- Walter B. Spencer, Ph.D., Baylor University, Assistant Professor, Psychology. (1971)
- 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)
- Harlan S. Stensaas, M.S., South Dakota State University, Assistant Professor, English. (1975)
- Robert W. Sterling, M.S.Ed., Eastern Illinois University, Associate Professor, History. (1956)
- Frank C. Stokes, Ph.D., University of Illinois, Associate Professor, English. (1969)
- Victor Stoltzfus, Ph.D., Pennsylvania State University, Associate Professor, Sociology-Anthropology.* (1970)

¹ Retired December 31, 1976.

- Sue B. Stoner, M.S.Ed., Eastern Illinois University, Assistant Professor, Psychology. (1965)
- Allice C. Stoughton, M.S., University of Oregon, Instructor, Physical Education. (1971)
- Gayle G. Strader, M.S., University of Illinois, Assistant Professor, Home Economics. (1965)
- Clifford E. Strandberg, Ed.D., Texas A & M University, Professor, Technology. (1965)
- James F. Stratton, Ph.D., Indiana University, Assistant Professor, Geography and Geology. (1975)
- Frederick G. Stubbs, Ph.D., University of Illinois, Associate Professor, Accountancy, Data Processing and Finance. (1972)
- Frieda S. Stute, Ph.D., University of Illinois, Associate Professor, Sociology-Anthropology. (1966)
- Gerald E. Sullivan, Ph.D., University of Minnesota, Professor, Theatre 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 and Education. (1965)
- L. Donald Sundheim, M.A., University of Minnesota, Assistant Professor, Foreign Languages. (1968)
- Kenneth R. Sutton, Ph.D., University of New Mexico, Associate Professor, Secondary Education and Foundation. (1970)
- Richard Swatzbaugh, 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) (Sabbatical leave, spring semester)

T

- Linda S. Tafel, M.A., Northern Illinois University, Instructor, Speech-Communication and Education. (1976)
- Henry A. Taitt, M.S., University of Delaware, Assistant Professor, Physics. (1965)
- Nancy P. Taitt, M.A., University of Delaware, Instructor, Mathematics. (1969)
- Ellwood R. Tame, Ph.D., University of Denver, Professor, Speech-Communication. (1965)
- Deborah Tappendorf, M.A., Eastern Illinois University, Instructor, Speech-Communication. (1976)
- Virginia A. Tate, M.Ed., University of Missouri, Assistant Professor, Elementary, Special and Junior High School Education. (1952)
- Lakshmi Tatikonda, Ph.D., University of Texas, Associate Professor, Accountancy, Data Processing and Finance. (1976)
- Rao J. Tatikonda, Ph.D., University of Texas, Professor, Management-Marketing. (1976)
- Frank S. Taylor, Ph.D., Boston University, Associate Professor, Philosophy.* (1965)
- Virginia J. Tefft, Ed.D., University of New Mexico, Professor, Physical Education. (1969)
- Francis L. Teller, M.A., Teachers College, Columbia University, Assistant Professor, Physical Education. (1963)
- Daniel E. Thornburgh, M.A., State University of Iowa, Assistant Professor, English and Director of Journalism. (1959)
- Laurence C. Thorsen, Ph.D., University of Illinois, Associate Professor, Political Science. (1968)
- Wayne L. Thurman, Ph.D., Purdue University, Professor, Speech Pathology and Audiology.* (1953)

- Robert C. Timblin, M.A., University of Illinois, Assistant Professor, Sociology-Anthropology. (1960)
 Donald F. Tingley, Ph.D., University of Illinois. (1953)
 Donald C. Tracy, M.M., University of Michigan, Assistant Professor, Music. (1968)
 Lynn E. Trank, Ph.D., The Ohio State University, Professor, Art. (1952)
 Charles F. Tucker, B.S.Ed., Eastern Illinois University, Faculty Assistant, Chemistry. (1955)

V

- Charles R. Vaughan, M.S.Ed., Eastern Illinois University, Assistant Professor, Recreation and Leisure Studies.** (1965)
 Stuart P. Vincent, M.S., University of Nebraska, Associate Professor, Elementary, Special and Junior High School Education. (1967)
 Dianna Vitanza, M.A., University of Houston, Assistant Professor, English. (1975)
 Victor Vitanza, Ph.D., Northern Illinois University, Assistant Professor, English. (1975)
 Virginia L. Vogel, M.S.Ed., Eastern Illinois University, Instructor, Home Economics. (1972)

W

- Leyla Waddell, M.A., Eastern Illinois University, Faculty Assistant, Library. (1967) (Part-time)
 Robert C. Waddell, Ph.D., Iowa State University, Professor, Physics. (1948)
 Jack W. Waldrip, Ph.D., The American University, Professor, Accountancy, Data Processing and Finance.* (1975)¹
 Ronald G. Wallace, Ph.D., The Ohio State University, Assistant Professor, Geography and Geology. (1970)
 Willis O. Waltman, Ed.S., Eastern Illinois University, Assistant Professor, School Service Personnel. (1969)
 Paul L. Ward, Ph.D., The Ohio State University, Associate Professor, Educational Psychology and Guidance. (1967)
 Ben P. Watkins, Ph.D., University of Minnesota, Professor, Art. (1964)
 Charles W. Watson, M.A., Western Kentucky State College, Assistant Professor, Technology. (1965)
 Mary L. Weber, M.S., University of California, Assistant Professor, Physical Education. (1970)
 Robert W. Weidner, Ph.D., University of Rochester, Professor, Music. (1965) (Sabbatical leave, fall semester)
 Terry M. Weidner, Ph.D., The Ohio State University, Professor, Botany*. (1964)
 Nancy Weiler, Ph.D., University of Illinois, Assistant Professor, Speech Pathology and Audiology. (1969)
 William A. Weiler, Ph.D., Purdue University, Associate Professor, Botany. (1969)
 Peter Wetterlind, Ph.D., University of Arizona, Assistant Professor, Accountancy, Data Processing and Finance. (1976)
 Edwin A. Whalin, Jr., Ph.D., University of Illinois, Professor, Physics. (1966)
 Robert V. Wharton, Ph.D., Columbia University, Professor, English. (1956)
 Bruce C. Wheatley, Ph.D., University of Denver, Associate Professor, Speech-Communication. (1966) (On leave)
 Richard A. White, M.S., Southern Illinois University, Assistant Professor, Elementary, Special and Junior High School Education. (1969)
 Robert F. White, Ph.D., University of Pennsylvania, Professor, English. (1960)

¹Department Chairman, fall semester, 1976.

- Wesley C. Whiteside, Ph.D., Florida State University, Professor, Botany. (1960)
L. Stephen Whitley, Ph.D., Purdue University, Professor, Zoology, (1963)
Roger L. Whitlow, Ph.D., St. Louis University, Associate Professor, English. (1967)
Robert L. Whittenbarger, Ph.D., University of Wisconsin, Assistant Professor, Sociology-Anthropology. (1975)
Clarence B. Wible, M. L., University of Pittsburgh, Assistant Professor, English. (1967) (On leave)
Rebecca S. Wild, Ph.D., University of Michigan, Professor, English. (1966)
Carl E. Wilen, M.F.A., University of Illinois, Associate Professor, Art. (1965)
Roger G. Wiley, M.A., Louisiana State University, Assistant Professor, Speech-Communication. (1964)
Wanda L. Wiley, M.A., Louisiana State University, Assistant Professor, Speech-Communication. (1976)
Jan Williams, M.S., Eastern Illinois University, Instructor, Home Economics. (1976)
Larry J. Williams, Ph.D., University of Illinois, Associate Professor, Mathematics. (1964)
Ned Williams, Ph.D., Columbia University, Professor, Management-Marketing. (1969)
Gilbert E. Wilson, Ph.D., Southern Illinois University, Associate Professor, Health Education. (1962)
Richard L. Wise, M.A., University of Illinois, Instructor, Geography and Geology. (1976)
Robert C. Wiseman, Ed.D., Indiana University, Professor, School Service Personnel.* (1958)
Verna D. Wittrock, Ph.D., University of Illinois, Associate Professor, English. (1966)
Ronald T. Wohlstein, M.A., University of Alberta, Assistant Professor, Sociology-Anthropology. (1970)
Leonard Wood, Ph.D., University of Pennsylvania, Professor, History. (1960)
M. Thomas Woodall, Ph.D., The University of Iowa, Professor, Physical Education. (1965)
Susan Woods, M.S., University of Illinois, Instructor, Health Education. (1976)
John R. Wright, Ed.D., West Virginia University, Associate Professor, Technology. (1976)
Sally Jo Wright, Ph.D., Southern Illinois University, Associate Professor, Accountancy, Data Processing and Finance. (1976)

Y

- Marina Su-Chin Yu, M.A., Texas Woman's University, Assistant Professor, Physical Education. (1966)

Z

- Robert Zabka, Ph.D., Northwestern University, Professor, Elementary, Special and Junior High School Education. (1964)
Jerry Zachary, Adv. C., University of Illinois, Assistant Professor, Educational Psychology and Guidance. (1966)
William D. Zerega, Ed.D., West Virginia University, Assistant Professor, Educational Psychology and Guidance. (1976)
U. Douglas Zimmerman, Ph.D., University of Missouri, Assistant Professor, Botany. (1972)
Endre Zongor, M.A., Western Michigan University, Assistant Professor, Library. (1968)
Susan M. Zorn, M.A., Indiana University, Instructor, English, (1972) (On leave)
Gary L. Zwicky, D.M.A., University of Illinois, Associate Professor, Music. (1966)
Michael Zwilling, M.A., Eastern Illinois University, Instructor, Mathematics. (1976)

EMERITUS FACULTY**Presidents**

Robert G. Buzzard, Ph.D.
Quincy V. Doudna, Ph.D.
Gilbert C. Fite, Ph.D.

Vice Presidents

Hobart F. Heller, Ph.D., Instruction
William H. Zeigel, Ph.D., Administrative Affairs

Professors

Rudolph D. Anfinson, Ph.D.
 Robert L. Blair, Ph.D.
 Harold M. Cavins, Ed.D.
 H. Logan Cobb, Ph.D.
 Calvin Countryman, D.Ed.
 David J. Davis, Ph.D.⁷
 Earl S. Dickerson, Ed.D.
 Arthur U. Edwards, Ph.D.
 Gladys W. Ekeberg, Ph.D.
 Charles Elliott, Ph.D.
 Clifford Fagan, Ph.D.
 Max Ferguson, Ph.D.
 Melvin O. Foreman, Ph.D.¹
 Ewell W. Fowler, Ed.D.
 Kevin Guinagh, Ph.D.
 Edith C. Haight, Ph.D.
 Bryan Heise, Ph.D.
 E. Chenault Kelly, D.Ed.
 Walter A. Klehm, Ed.D.
 Glenn Q. Lefler, Ph.D.
 Lawson F. Marcy, Ph.D.²
 John W. Masley, Ed.D.

Glenn A. McConkey, Ph.D.⁶
 John Mertes, D.B.A.
 Elizabeth Michael, Ph.D.
 Sadie O. Morris, Ph.D.
 Maynard O'Brien, Ed.D.
 Harry E. Peterka, Ph.D.
 Le Roy Peterson, Ph.D.
 Harris E. Phipps, Ph.D.³
 Raymond Plath, Ph.D.
 Mary Jo Read, Ph.D.
 William G. Riordan, Ph.D.
 J. Glenn Ross, Ph.D.
 Roscoe F. Schaupp, Ph.D.
 Ruth Schmalhausen, Ed.D.
 Glenn H. Seymour, Ph.D.
 Ruby Smith, Ph.D.
 Verne Stockman, Ed.D.
 George S. Westcott, Ph.D.
 William G. Wood, Ph.D.
 Harriet Yingling, Ed.D.
 Lorene E. Zeigler, D.Ed.

Associate Professor

Fethi Kupuz, M.Fac.ofLet.
 Elwyn L. Martin, Ph.D.

Assistant Professors

Mary L. Anderson, Ed.S.
 Winifred H. Bally, M.A.
 Ruth Carman, M.A.⁴
 Gilbert T. Carson, A.M.
 Leah Stevens Castle, S.M.
 Rex Darling, Dir.P.E.
 Helen Devinney, A.M.
 Lena B. Ellington, A.M.
 Aline Elliott, M.S.

Jessie M. Hunter, M.A.
 Ica Marks, M.S.
 Frances McColl, M.A.
 Mildred Morgan, M.A.
 Roberta L. Poos, A.M.
 Florence E. Reid, M.A.
 Nannilee Saunders, M.A.
 Lee Anna J. Smock, M.A.
 Ethel Hanson Stover, A.M.

Marguerite E. Green, M.P.H.
Harriet Love Hershey, M.S.
Ruth Hostetler, A.M.⁵

Robert R. Thrall, M.S.
Helen VanDeventer, M.S.Ed.

¹Died Sept. 25, 1975

²Died Aug. 11, 1976

³Died July 30, 1975

⁴Died Oct. 22, 1975

⁵Died June, 1976

⁶Died Jan. 27, 1977

⁷Died, Jan. 30, 1977

Instructors

Pauline Galbreath, M.S.L.S.
Mildred Hofacker, M.A.
Lottie Leeds, M.S. Ed.

Administrators

Raymond R. Gregg, A.M., Director of Business Services
Ruth H. Gaertner, M.S., Director of Residence Hall Food Services
Myron Boylson, M.D., University Physician
Ross C. Lyman, M.S., Director of Financial Aids
Edwin McCawley, Assistant Director of University Union
Gilbert Ransom, M.D., University Physician

DISABILITY LEAVE

Professors

William H. Groves, Ph.D.

ADJUNCT FACULTY

Douglas Marsden, Research Associate, Zoology (1966)
Troyt B. York, M.S., Adjunct Professor, Management-Marketing (1975)

- Academic Advisement, 49
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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

Continuing Education (Extension Service) — Director of Continuing Education

Housing — Dean, Student Housing

Military Scholarships — Director of Veterans Services

Placement — Director of Placement

Readmission of Former Students in Good Standing — Records Office

Reinstatement of Former Students Dismissed for Low Scholarship — Records Office

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 Continuing Education

Testing — Coordinator of Testing

Workshops — Director of Continuing Education



EASTERN ILLINOIS UNIVERSITY

CATALOG SUPPLEMENT

September 11, 1978

II. STUDENT LIFE, ACTIVITIES, AND SERVICES

p. 18, Married Housing (change)

Rates are \$110.75 per month for a one-bedroom apartment and \$100.75 per month for an efficiency apartment.

III. STUDENT EXPENSES AND FINANCIAL AID

p. 29, Application Charge (delete after Fall 1978)

p. 30, Part-Time Student (change)

Fee: (Per Sem. Hr.)	Ill. Resident Undergrad.	Ill. Resident Graduate	Out-of-State Undergrad.	Out-of-State Graduate
Tuition (Regis. Fee)	\$21.25	\$22.50	\$63.75	\$67.50
*Prog. & Services	7.65	7.65	7.65	7.65
	\$28.90	\$30.15	\$71.40	\$75.15

p. 30, Full-Time Student (change)

Fee: (12-17 s.h.)				
Tuition (Regis. Fee)	\$255.00	\$270.00	\$765.00	\$810.00
*Prog. & Services	109.20	109.20	109.20	109.20
	\$364.20	\$379.20	\$874.20	\$919.20

p. 30, Overload Student: An undergraduate student enrolled for more than 17 sem. hrs. of work shall pay the following fees:

Semester Hours	Tuition Fees			Totals	
	Illinois Resident	Out-of-State Student	Prog. & Services	Illinois Resident	Out-of-State Student
18	\$276.25	\$ 828.75	\$109.20	385.45	937.95
19	297.50	892.50	109.20	406.70	1001.70
20	318.75	956.25	109.20	427.95	1065.45
21	340.00	1020.00	109.20	449.20	1129.20
22	361.25	1083.75	109.20	470.45	1192.95

*Breakdown of Programs and Services Fees:	Full-Time	Part-Time
Activity Fee	\$ 13.50	\$.90
Athletic Fee	9.00	.60
Bond Revenue Building Fee	33.50	2.80
Textbook Rental Fee	17.00	1.50
Health and Accident Insurance	12.00	----
Grants-in-Aid Fee	9.00	.75
Minority Student Fee	3.00	.25
Pharmacy Fee	2.00	----
Union Operation Fee	10.20	.85
	\$109.20	\$ 7.65

(Part-time students are not eligible for health and accident insurance.)

p. 32, Room and Board Charges (change)

Charges for board and room in the University residence halls are: \$671 for the fall semester, and \$641 for the spring semester, if paid in full. There is an ...

IV. ADMISSION, READMISSION, ENROLLMENT AND ADVISEMENT

p. 48, Foreign Students (change last sentence)

The admission requirement is a minimum score of 550 on the TOEFL.

p. 55, Grades Changed (change)

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

p. 56, top of page item 3) (change)

at the end of two successive grading periods on academic probation his cumulative grade-point average is less than 2.00 and his last grading period grade-point average is less than 2.10.

p. 57, Graduate Student (change)

A graduate student may take no more than 16 semester hours during a semester and nine semester hours during a summer term. This is exclusive of workshops or short courses held prior to or following either the summer term or a regular semester.

p. 60, Requirements for the Bachelor's Degree, Item 7 (change)

A transfer student must successfully complete a minimum of 56 semester hours applicable to a baccalaureate degree in senior institutions, with at least 42 semester hours earned at Eastern Illinois University.

VII. UNDERGRADUATE DEGREES

p. 72, top of page, change first paragraph to read: The maximum amount of student teaching credit that may count toward the 120 semester hours required for a bachelor's degree is 15 semester hours. (Effective fall semester 1978.)

p. 74, change last paragraph to read: A minor in other than teacher certification programs may be obtained by successfully completing a minimum of 18 semester hours in a discrete discipline or in an interdisciplinary minor which has been approved by the university. However, a student wishing an interdisciplinary minor in Business Administration must complete 24 semester hours in courses approved by an advisor from the School of Business. 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.

p. 75, Humanities Courses Which Apply (add)

to English course exceptions, add 1000

p. 76, Mathematics--Science Courses Which Apply (add)

Botany 1011, 2340
Earth Science 1420
Chemistry 1305

p. 76, Social Studies Courses Which Apply (add)

History 1005

p. 77, Accounting (B.S. Bus.) (change)

delete Finance 3700, which changes the total sem. hrs. required to 90.
Major GPA based on all School of Business courses taken.

p. 77, Administrative Office Management (B.S. Bus.) (change)

delete Finance 3700, which changes the total sem. hrs. required to 83.
Major GPA based on all School of Business courses taken.

p. 78, Adult Education Minor (add)

to electives: EDG 5100 (for eligible students)

p. 80, Botany (B.S.) (change) (effective Fall 1978)

first line - add BOT 1011
second line - change to: CHM (1310, 1315) or (1300, 1305); (1410, 1415) or (1510, 1515) 8 sem. hrs.

p. 80, Botany (B.S. for Teacher Certification) (change) (effective Fall 1978)

(same as above)

p. 83, Chemistry (B.S.) (change)

Major:
Chemistry (1310, 1315) or (1300, 1305); 1510; 1720 or (1515 and 2720) 10-11 sem. hrs.
Chemistry 2830, 2835, 2840, 2845, 3000, 3001, 3780, 3910, 3915, 3920, 4000, 4001, 4770, 4900, 4905 30
Chemistry electives 6
Mathematics 2351, 2352 8
Physics 1350, 1360 8
Total 62-63 sem. hrs.

p. 83, Chemistry (with Management Option) (B.S.) (change)

Major:

Accountancy 2000, 2001	6 sem. hrs.
Chemistry (1310, 1315) or (1300, 1305); 1510; 1720 or (1515 and 2720); 2830, 2835, 2840, 2845, 3780, 3910, 3915	28-29
Electives in chemistry	3
Data Processing 1250	2
Finance 3710	3
Economics 2801, 2802	6
Management 2460, 2810, 3010	9
Marketing 3470	3
Mathematics 2351, 2352	8
Physics 1350, 1360	8
Elective in accountancy, data processing, finance, Management 4360, Marketing 3720, 4760, 4860	3
Total	79-80 sem. hrs.

p. 84, Chemistry (B.S. for Teacher Certification) (change)

Major:

Chemistry (1310, 1315) or (1300, 1305); 1510; 1720 or (1515 and 2720)	10-11 sem. hrs.
Chemistry 2830, 2835, 2840, 2845, 3100, 3780, 3910, 3915, 4900, 4905	23
Mathematics 2351, 2352	8
Physical Science 3400	3
*Physics 1350, 1360	8
Elective in chemistry	3
Total	55-56 sem. hrs.

Minor: (for teacher certification)

Chemistry (1310, 1315) or (1300, 1305); (1410 and 1415) or (1510 and 1515)	8 sem. hrs.
Chemistry 2430, 2435	5
Electives chosen from Chemistry 2440, 2720, (3450 and 3455)	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 sem. hrs. in order to meet certification requirements.

**Physical Science 3400 may be omitted if the student has credit for Life Science 3400.

p. 85, Computer Management (B.S. Bus.) (change)

delete Finance 3700.
change total semester hours required to 86.
Major GPA based on all School of Business courses taken.

p. 85, Earth Science (B.S.) (change)

in first line, change to: Chemistry (1300, 1305) or
(1310, 1315) 4 sem. hrs.
in third line, substitute Geography 3850 for 4800.

p. 85, Earth Science (B.S. for Teacher Certification) (change)

change first line to: Chemistry (1300, 1305) or (1310,
1315) 4 sem. hrs.

p. 86, Earth Science Minor (change)

change first line to: Chemistry (1300, 1305) or (1310, 1315)

p. 88, Flexible Program for Elementary Majors with a 3.50 Cumulative GPA

change to:

Honors Program for Elementary Majors with a 3.50 Cumulative GPA
and change the second paragraph to: Students may apply for admission to the program after completing 24 but less than 90 semester hours toward graduation, including at least 15 semester hours at Eastern Illinois University. Students submit an application to the chairman of the Department of Elementary, Special and Junior High School Education.

p. 90, Energy Management (B.S. Bus.) (change)

Major GPA based on all School of Business courses taken.

p. 91, Engineering (B.S.) (change first line to p. 81)

Chemistry (1310, 1315) or (1300, 1305); 1510, 1515 8 sem. hrs.

p. 92, Environmental Biology (B.S.) (change)

Major:

Botany 1010, 1011, 1022, 2290, 3300	13 sem. hrs.
Botany 3541 or Zoology 3100	4
Chemistry (1310, 1315) or (1300, 1305); 1410, 1415	8
Economics 3810	3
Earth Science 1410 or 1420 or Geology 1400	3-4
Life Science 1000, 2010, 3200, 4080, 4750	24
Zoology 1010, 2000 or 2100, 3300, 3700	14-15
Any two of: Botany 4811, Zoology 4800, 4810	6
Total	75-77

p. 92, Finance (B.S. Bus.) (change)

Major:

Accountancy 2000, 2001, 3020	9 sem. hrs.
Data Processing 1250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3710, 3720, 3730, 4830	12
Management 2460, 2810, 3010, 3340, 3950, 4360	18
Marketing 3470	3
Mathematics 1290, 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-business electives	4
Five of (at least three must be Finance): Finance 3740, 3750, 3900, 4200, 4820, Management 3800, 3470, Accountancy 4800	15
Total	89 sem. hrs.

Major GPA based on all School of Business courses taken.

p. 93, Geography (B.S.) (change)

Substitute Geography 4410 for 4730, and 3850
for 4800 in electives.

p. 94, Geography (B.S. for Teacher Certification) (change)

Same as above in addition to the deletion of
Geography 3400.

p. 94, Geography Minor (change as above)

p. 94, Geology (B.S.) (change)

Major:

Chemistry (1310, 1315) or (1300, 1305); (1410, 1415) or (1510, 1515)	8 sem. hrs.
Electives chosen from Geology 3420, 3460, 3470, 4400, Earth Science 2420, 2460, Geography 3800, 3850	7
Geology 1400, 2430, 2440, 3430, 3440, 3450, 4460, 4470, 4490	28
Life Science 1000	3
Mathematics 1300, 1310, 1340	8
Physics 1350	4
Zoology 1010 or Botany 1010	4
Total	62 sem. hrs.

p. 96, Home Economics (B.S.) (change)

Dietetics Option:

Accountancy 2000	3 sem. hrs.
Botany 2340	3
Chemistry (1310, 1315) or (1300, 1305); 1410, 1415, 2430, 2435, 3450, 3455	17
Economics 2801	3
Home Economics 1120, 1150, 2120, 2400, 3120, 3140, 3150, 3400, 4140, 4150	26
Management 3010, 3450	6
Mathematics 1290 (or higher)	5
Psychology 2310, 3620	6
Sociology 2710	3
Zoology 2999	3
Total	75 sem. hrs.

Home Economics in Business Option:

Economics 2801, 2802	6 sem. hrs.
Home Economics 2400, 3300, 3920, 4300	8
Journalism 3820	3
Psychology 2310	3
Area I or II or III	53-63
Total	73-83 sem. hrs.

Area I (Foods & Nutrition): Botany 2340; Business Education
1420; Chemistry (1310, 1315) or (1300, 1305) or 1050;
Home Economics 1120, 1150, 2120, 2250, 3120, 3140,
3150, 3925, 4140; Management 3010, 3030; Marketing
3670, 3610; 2 sem. hrs. in psychology; 15 sem. hrs.
in Home Economics electives. Total: 61 sem. hrs.

Area II (Clothing & Merchandising): (unchanged)

Area III (Consumer Affairs): substitute Business Education
1420 for Finance 3700 and 3710. change total to
66 sem. hrs.

p. 97, Industrial Technology (B.S.) (change)

Chemistry 1310, 1315) or (1300, 1305), 1510, 1515 . . .	8 sem. hrs.
Economics 2801, 2802, 3890	9
Health Education 3350	2
Industrial Technology 1043, 3003, 3012, 3043, 4002, 4043	16
Management 3010, 3830, 3950	9
Data Processing 2300 or Mathematics 2310	3
Mathematics 1340, 2110	6
Physics 1350, 1360	8
Psychology 3530	2
Technology Education 1413, 2064, 2324	11
Option in electronics, construction, metal work, or general	12
Total	86 sem. hrs.

p. 97, Journalism (B.A.) (change)

Journalism 2100, 2101, 2102, 3001, 3100, 3101, 3102, 4001, 4100, 4101	24 sem. hrs.
Courses chosen from: Political Science 2603, 3733, Technology Education 4113, English 2003, History 3180, 4110, Sociology 3681, Philosophy 3300, Speech Communication 2520, Economics 3835, Marketing 3510	15
Upper division courses chosen in consultation with student's advisor	12
Total	51 sem. hrs.

p. 98, Junior High School Education (B.S. Ed.)

Biological Sciences, Field I - add Botany 1011
Biological Sciences, Field II - add Botany 1011

Physical Science, Field I - substitute Chemistry (1310, 1315) or (1300, 1305) for Chemistry 1300 or 1310; 1315.

Physical Science, Field II - same as above

p. 101, Management (B.S. Bus.) (change)

delete Finance 3700 and change total to 83 or 86 sem. hrs.
Major GPA based on all School of Business courses taken.

p. 101, Marketing (B.S. Bus.) (change)

delete Finance 3700 and change total to 83 sem. hrs.
Major GPA based on all School of Business courses taken.

p. 103, Medical Technology (B.S.)

Special Requirements - Substitute Chemistry (1310, 1315) or (1300, 1305) for Chemistry 1310 or 1300, 1315.

p. 107, Physics (B.S.) substitute Chemistry (1310, 1315) or (1300, 1305) for Chemistry 1310 or 1300; 1315.

p. 108, Physics (with Management Option) (B.S.) same as above

p. 108, Physics (B.S. for Teacher Certification) same as above

p. 108, Physics Minor same as above.

p. 108, Political Science (B.A.) (change)

Major:	
Political Science 1003, 1103, 2002, 2053, 2603	14 sem. hrs.
One of Political Science 2203, 3203, 3223, 3373, (4821, 4822, 4823)	3
One of Political Science 3303, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3643, 3713, 3723, 3733, 3743, 3753, (4831, 4832, 4833), 4843	3
One of Political Science 3413, 4753, 4793, 4873, 4893	3
One of Political Science 3513, 3523, 3533, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in Political Science	6
Total	38-39 sem. hrs.

p. 109, Political Science (B.A. for Teacher Certification in Social Studies) (change)

Major:

Political Science 1003, 1103, 2002, 2053, 2603	14 sem. hrs.
One of Political Science 2203, 3203, 3223, 3373, (4821, 4822, 4823)	3
One of Political Science 3303, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4753, 4793, (4813, 4832, 4833), 4843, 4893	3
One of Political Science 3513, 3523, 3533, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in Political Science	9
Social Science 3400	3
Choice of one of the options listed below	16
Total	57-58 sem. hrs

I -- 8 semester hours in U.S. history and 8 semester hours in European history. Total, 16 sem. hrs.

II -- 8 semester hours in each of two of the following: economics, geography, sociology. Total, 16 sem. hrs.

p. 112, Special Education (B.S. Ed.) add

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

Two options are available for the Special Education major. In making a selection the student should be guided by whether his or her interests lie mainly at the high school level or at the elementary school level.

Special Education with the Elementary Option

Students completing this option will be eligible for a Special Certificate permitting them to work in one or more areas of Special Education from Kindergarten through grade twelve. They also will be eligible for a Standard Elementary Certificate allowing them to teach in a regular elementary classroom.

Art 1650	3 sem. hrs.
Elementary Education 1230, 2320, 3240, 3270, 3280, 3290	17
Educational Foundations 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics 1220, 3190; 3200 or 3210	7
Music 1421	3
Physical Education 3600	2
Physical Science 1100*	4
Psychology 2310	3
Science electives (see Distribution Requirements)	3
Speech Communications 1310	3
Student Teaching 4301, 4302, 4304, 4308	15
U. S. History or U. S. Government (see Distribution Requirements)	3
Select from two areas: Art 2440, Technology Education 2242 or 2252, Music 3421 or 3423	4-5
Humanities electives (see Distribution Requirements)	3
Social Studies electives** (other than Psychology) (See Distribution Requirements)	6
Special Education Requirements listed below	23
Electives as needed to complete 120 semester hours	

Educable Mentally Handicapped: Special Education 2500, 3300, 4770, 4960; electives from: Special Education 3350, 3400, 3660, 4750, 4760, 4880, 4970, 4990, Elementary Education 4775, Educational Psychology 4770, Psychology 3550, Speech Pathology & Audiology 4800. Total, 23 sem. hrs. minimum.

Learning Disabilities: Special Education 2500, 3350, 4770, 4990; electives from: Special Education 3300, 3400, 3660, 4750, 4760, 4880, 4960, 4970, Elementary Education 4775, Educational Psychology 4770, Psychology 3550, Speech Pathology & Audiology 4800. Total, 23 sem. hrs. minimum.

Socially and Emotionally Maladjusted: Special Education 2500, 3660, 4770, 4880; electives from: Special Education 3300, 3350, 3400, 4750, 4760, 4960, 4970, Elementary Education 4775, Educational Psychology 4770, Psychology 3550, Speech Pathology & Audiology 4800. Total, 23 sem. hrs. minimum.

*Four semester hours in Physics and/or Chemistry, including laboratory work, will fulfill this requirement.

**The Social Studies electives should be chosen so that the student's total work in social studies includes at least two of the following disciplines: Anthropology, Economics, Geography, History, Political Science, Sociology.

Special Education with the Secondary Option

Students completing this option will be eligible for a certificate in Special Education, valid from Kindergarten through High School. They also will be eligible for a Standard High School Certificate permitting them to teach an academic area in grades six through twelve. Students choosing Art or Music as their academic area will be eligible to teach those subjects from Kindergarten through grade twelve.

General Education Requirements (see p. 75 of the 1977-1978 catalog) (must include 3 s.h. Health and/or P.E.) . . .	39 sem. hrs.
Professional Education	17
PSY 2310 - Introduction to Psychology (also counts as Social Science requirement)	3
EDP 3320 - Educational Psychology and the Instructional Task in Secondary School	5
EDF 4450 - Philosophy and History of Education	3
STG 4302 - Teaching Practicum (Academic Major)	2
STG 4304 - Teaching Practicum (Academic Major)	4
Special Education Area	32
Academic Teaching Area	32

Special Education Areas

Educable Mentally Handicapped: SPE 2500, 3300, 4770, 3400, 4970; STG 4301, 4308; 7 s.h. electives from below. Must total 32 semester hours.

Learning Disabilities: SPE 2500, 3350, 4770, 4970, 4990; STG 4301, 4308; 7 s.h. electives from below. Must total 32 semester hours.

Socially Emotionally Maladjusted: SPE 2500, 3660, 4770, 4880, 4970; STG 4301, 4308; 7 s.h. electives from below. Must total 32 semester hours.

Special Education Electives: SPE 3300, 3350, 3400, 3660, 4880, 4960, 4990, PSY 3550, SPA 4800.

Academic Areas

(All Areas Must Total 32 Semester Hours)

ART (Standard High School Certificate)

ART 1000, 1110, 2250, 2410, 2700, 3410, 3820, plus 9 semester hours electives from (2050, 2100, 2340*, 2560, 2601, 2602, 3080).

BIOLOGICAL SCIENCE (Standard High School Certificate)

LFS 1000*, 2010*, 3200, 3400; BOT 1010*, 1011*, 1022, 2290 or 2300; ZOO 1010*, 2100 or 3300, 3700.

BUSINESS EDUCATION (Standard High School Certificate)

(ACC 3000 & 3001, or two of the following: BEB 1110, 1120, 2110; MGT 3470, 3490, 3510; DAP 2250; BED 3220 or 3230; BED 3400, 3410, 3430 or 3440, 4720, 4940.

ENGLISH (Standard High School Certificate)

ENG 2001*, 2901, 3400, 4300. *Select six three-semester hour courses* to satisfy groups 1, 4, 12, 4 or 7 or 8, 9 or 10, 5 or 11 (see page 157 in 1977-78 catalog for explanation of groups).

GEOGRAPHY (Standard High School Certificate)

GEG 1500*, 3070; One course from (GEG 3520, 3530, 3540); One course from (GEG 3600, 3620, 3670); One course from (GEG 3650, 3700, 3750); SOC 3400; 14 semester hours Geography electives.

HEALTH EDUCATION (Standard High School Certificate)

HED 2170, 3200, 3400, 3730, 4000, 4210, 4020; LFS 1000*; ZOO 2999* or 3100; Select electives from (BOT 2340 or HEC 3190); (HED 1320 or 3000); HED 2900, 3300, 3500, 4741, 4760, 4800, 4820, 4900, 4990; (HEC 2800 or SOC 4730); LFS 2010, PSY 3550, SOC 4702.

HISTORY (Standard High School Certificate)

HIS 1100*, 2010*, 2020*, 3000, 3005, 3500, SOC 3400; History electives above 3000 to include three semester hours in NON-U.S. History.

HOME ECONOMICS (Standard High School Certificate)

HEC 1120, 1150, 2120, 2800, 2850, 3234, 3300, 3307, 3400, 4400; Three semester hours from (HEC 2831*, 3800, 3853, 4840, 4854).

MATHEMATICS (Standard High School Certificate)

MAT 2310*, 2351*, 2352, 2550*, 3271, 3400, 3531, 3701, 4810; Electives above 3000 except MAT 3200, 3210 and 4080.

MUSIC EDUCATION (Standard Special Certificate)

MUS 1541, 1542, 1543, 1544, 2421, 2440, 2541, 2543, 2565*, 2566*, 2580, 3435; 3 semester hours from Choral Activities (MUS 0300*, 2155); 2 semester hours from Piano (MUS 1203, 1204); 2 semester hours Music electives.

PSYCHOLOGY (Standard High School Certificate)

PSY 2310*, 2320*, 3400, 3601 plus either (PSY 3800 and sufficient PSY electives) or (PSY 2610; 3810 or 3820, and sufficient PSY electives).

SOCIAL STUDIES (Standard High School Certificate)

HIS 1100*, 2010*, 2020*, 3000, 3005, 3 semester hours U.S. History electives; 8 semester hours electives from one of (ANT, ECN, PLS or SOC); 3 semester hours electives from (ANT, ECN, PLS or SOC); SOS 3400.

TECHNOLOGY EDUCATION (Standard High School Certificate)

TED 1293, 1413*, 2064, 2114, 2242, 2252 or 2292, 2324, 3400; Electives from (TED 3013, 3023, 3122, 4470 or 4480, 4932).

*May be used to satisfy General Education Requirements.

p. 114, Theatre Arts (B.A.) (change)

Major:

Theatre Arts 1101, 1102, 1132, 1133, 2205, 2244, 2257, 3001, 3333, 3357, 3358, 3431, 3445, 3751, 3752, 4001 38 sem.hrs.
English 3607, 3608 8
Total 46 sem.hrs.

p. 114, Theatre Arts (B.A. for Teacher Certification) (change)

Major:

Theatre Arts 1101, 1102, 1132, 1133, 2205, 2244, 2257, 3001, 3333, 3357, 3358, 3431, 3445, 3751, 3752, 4001 38 sem.hrs.
English 3607 or 3608 4
Speech Communication 2320, 2340 6
Speech Communication 3400 or English 3400 3
Total 51 sem.hrs.

p. 115, Zoology (B.S.) (change)

first line - add Botany 1011
second line - change to: Chemistry (1310, 1315) or (1300, 1305); 1410, 1415 8 sem.hrs.
sixth line - delete the phrase (except 2999)

p. 115, Zoology (B.S. for Teacher Certification) (change)

first line - add Botany 1011
second line - change to: Chemistry (1310, 1315) or (1300, 1305); 1410, 1415 8 sem.hrs.

VIII. GRADUATE DEGREE PROGRAMS

p. 120, add Environmental Biology to the Master of Science list

IX. NON-DEGREE PROGRAMS

p. 123, Pre-Dentistry - substitute Chemistry (1310, 1315) or (1300, 1305) for Chemistry 1310 or 1300, 1315.

p. 124, Pre-Engineering - substitute Chemistry (1310, 1315) or (1300, 1305) for Chemistry 1310, 1315.

p. 124, Pre-Veterinary Medicine - substitute Chemistry (1310, 1315) or (1300, 1305) for Chemistry 1310 or 1300; 1315. Also, add Botany 1011.

X. ACADEMIC ORGANIZATION AND COURSE DESCRIPTIONS

p. 126, Course Descriptions, change item a to read: Courses numbered 3000-4999 in chemistry and foreign languages may be taken by students who have prerequisites and permission of the chairman of the department.

Accountancy (change)

- 3020 - add to prerequisite: Management 2810.
- 3600 - add to prerequisite: Management 2810.
- 4050 - change prerequisite to: Accountancy 3051 or concurrent registration in Accountancy 3051.
- 4600 - change prerequisite to: Accountancy 3600.
- 4740 - change credit to 3
- 4950 - change credit to 3 or 6 or 9 or 12 or 15.

Art (change)

- 1650 - delete the last phrase, or who have credit for Art 2651.
- 2651 - delete last sentence.
- 3410 - add to prerequisite: Educational Psychology 3320 or Secondary Education 3320.

Arts and Sciences (change)

- 3750 - change to read: Studies in Europe. This is not a course This entry refers to a group of courses. See 3750 under economics, French, German, Spanish, and history. Study of the cultural, intellectual, economic and political aspects of a particular area or areas of Europe. Registration is handled by the Director of Continuing Education. Each participant must register for the appropriate number of semester hours of work from these courses, generally at least one semester hour per week of the program.

Botany (add)

- 1011. General Botany Laboratory. (0-4-2)
- 2318. Outdoor Home Horticulture. (1-2-2)
- 2319. Indoor Home Horticulture. (1-2-2)
- 5102. Taxonomy of Aquatic Macrophytes. (2)

Botany (delete)

2503

Botany (change)

- 1010 - change credit to (2-0-2)
- 2320 - change prerequisite to: Life Science 1000.
- 2340 - change title to: Microorganisms and Man; delete last phrase of description.

Business Administration (add)

- 5010. Essentials of Accounting. (3) (Not open to students working toward or having a B.S. in Business degree or a B.S. in Education degree with a major in Business Education.
- 5680. Organizational Behavior and Group Dynamics. (3)
- 5870. Seminar in Information Systems. (3)

Business Administration (delete)

5205

Business Administration (change)

- 5005 - add prerequisite: Mathematics 1290 or 1300 or satisfactory placement score.
- 5100 - add prerequisite: Management 2810.
- 5255 - add prerequisite: Management 3010.
- 5590 - add to prerequisite: Management 2810 and Mathematics 2120.
- 5605 - change prerequisite to: Accountancy 3020 or 3600 or Business Administration 5010.
- 5670 - change prerequisite to: Data Processing 2300.
- 5805 - change prerequisite to: Business Administration 5605 or accounting major.
- 5815 - change prerequisite to: Business Administration 5415 or marketing major.
- 5840 - change prerequisite by adding: "or finance major."
- 5860 - change prerequisite to: Business Administration 5660 or management major.

Chemistry (add)

- 1305. Introductory Chemistry Laboratory I. (0-3-1) Must be taken concurrently with Chemistry 1300.
- 3455. Biochemistry Laboratory I. (0-3-1)
- 4750. Scientific Glassblowing. (0-3-1)
- 4960. Industrial Chemistry. (3-0-3)

Chemistry (change)

- 1050 - change title to: Adventures in Chemistry.
- 1315 - change description to: Must be taken concurrently with Chemistry 1310.
- 1410 - delete the words "specifically designed" from the description.
- 1510 - delete the words "specifically designed" from the description.
- 3460 - renumber to 3450 and change credit to (3-0-3).
- 3910 - change to (4-0-4)
- 3915 - change title to: Physical Chemistry Laboratory.
- 5010 - change credit to (3) (effective Spring 1979)

Cooperative Education (change)

- 3001 - delete the words "off campus" from the description.

Data Processing (change)

- 2250 - renumber to 1250

Earth Science (add)

- 3960. Special Topics. (Arr.-Arr.-2 to 4)
- 4420. Independent Study. (Arr.-Arr.-1 to 3)

Economics (add)

- 3853. Urban and Regional Economics. (3-0-3) (effective Spring 1979)
- 4000. Internship in Economics. (Arr.-Arr.-9 or 12) (Pass-Fail)

Economics (delete)

5443

Economics (change)

- 3750 - see Arts and Sciences 3750 above.

Educational Administration (delete)

- 4800 - delete
- 6700 - delete

Educational Guidance (change)

- 6941 - change credit to (3)

Educational Psychology (add)

- 5960. Consultation Skills and Organizational Development. (3)

Educational Psychology (change)

- 5400 - change title to: Approaches to Learning (effective Spring 1979)

English (add)

- 3903. Women, Literature, and Language. (3-0-3)
- 4100. Internship in English. (Arr.-Arr.-4) (Pass-Fail)
- 4906. Problems in the Teaching of English. (3-0-3)

English (change)

- 1000 - add to description: Pass-Fail only. Does not count in cumulative grade point average.
- 4905 - change title to: Studies in Children's Literature

Finance (add)

- 3750 (Management 4840). Commercial Bank Management. (3-0-3)

Finance (change)

- 3700 - renumber and change title to: 3730, Financial Markets; delete Accountancy 2001 from prerequisite.
- 3710 - change prerequisite to: Accountancy 2001, Economics 2802, Management 2810, and junior standing.
- 3720 - change prerequisite by substituting "and junior standing" for the phrase "or permission of the instructor."
- 3900 - change prerequisite to: Accountancy 2001, Economics 2802, Management 2810, and junior standing.
- 4200 - change prerequisite by deleting Management 2810.
- 4390 - renumber to 3740; change prerequisite to: junior standing.
- 4820 - change prerequisite to: Finance 3710, 3730, Economics 3860, and senior standing.
- 4830 - change prerequisite to: Finance 3720, 3730, and senior standing.

Foreign Language (change)

3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.

French (add)

1002. Conversational French for Beginners II. (2-0-2)

French (change)

3750 - see Arts and Sciences 3750 above.

German (add)

1002. Conversational German for Beginners II. (2-0-2)

German (change)

3750 - see Arts and Sciences 3750 above.

Spanish (add)

1002. Conversational Spanish for Beginners II. (2-0-2)

Spanish (change) (2-0)

3750 - see Arts and Sciences 3750 above.

General Studies (change)

1000 - add to description: "Does not count toward graduation."

Geography (add)

3850. Computer Mapping. (3-0-3)
4410. Independent Study. (Arr.-Arr -1 to 3)

Geography (delete)

3400
4730
4800

Geology (add)

3420. Principles of Geomorphology. (2-2-3)
4460. Principles of Stratigraphy. (2-2-3)
4470. Principles of Sedimentation. (2-2-3)

Geology (delete)

3040
4450

Health Education (change)

3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.

History (add)

1005. Great Events in American History. (1-0-1)
4110. History of American Journalism. (3-0-3)

History (change)

3750 - see Arts and Sciences 3750 above.

Home Economics (add)

4820. Death and Dying. (3-0-3)

Home Economics (delete)

5120

Home Economics (change)

3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.
4300 - change credit to (2-0-2)

Journalism (add)

3201. Press and Society. (3-0-3)
3820. Utilizing the Press. (3-0-3)
4001. Newspaper Management. (3-0-3)
4501. Advertising. (3-0-3) (effective Spring 1979)
4820. Fundamentals of Public Relations. (3-0-3)
4900. Journalism Seminar. (3-0-3) (effective Spring 1979)

Life Science (add)

5080. Graduate Internship in Environmental Biology. (6)
5100 (Zoology 5100) Introduction to Graduate Study and Research. (2)
5150. Advanced Graduate Seminar. (1) (May be repeated for a maximum of three semester hours.)
5950. Thesis. (3 to 6)
5990. Independent Study. (1 to 6)

Life Science (change)

3200 - title is Genetics.
3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.
4750 - change title to: Biometrics.
4840 - add to description: May be substituted for 3 semester hours of electives in botany or zoology major.

Management (add)

4950. Management Consulting and Research. (Arr.-Arr.-3)

Management (change)

4840 - change to Finance 3750.

Mathematics (change)

2310 - add prerequisite: Three semester hours of college level mathematics or concurrent enrollment in any mathematics course numbered 2000 or above. (effective Spring 1979)
2320 - renumber to 2300.
4080 - add to description: Credit applicable for graduation only in Computational Mathematics major.

Medical Technology (change)

2600 - delete sentence, Course is Pass-Fail, from description.

Music (add)

0025. Recorders. (Arr.-Arr.-1 or 2 or 4)
0541. Introduction to Music Theory. (1-2-2)
3325. Recorders. (Arr.-Arr.-1 or 2 or 4)
3435. Music in Special Education. (3-0-3)
5525. Applied Recorders. (1 or 2)

Music (change)

3400 - add to prerequisite: Educational Psychology 3320 or Secondary Education 3320.

Occupational Education (change)

3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.

Philosophy (add)

1700. The Western Religious Heritage. (3-0-3)

Physical Education (add)

2144. Technique and Theory of Scuba Diving. (1-2-2)
2701. Football Officiating. (1-1-1)
2702. Basketball Officiating. (1-1-1)
2705. Softball and Baseball Umpiring. (1-1-1)
2707. Volleyball Officiating. (1-1-1)
3580. Gymnastic Coaching. (2-2-3)

Physical Education (delete)

1440
1630
2610

Physical Education (change)

- 3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.
5120 - change title and credit to: Social Psychology and Physical Activity. (3)

Physical Science (change)

- 3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.

Political Science (add)

4873. Government Personnel Administration. (3-0-3)
5273. Executive Process. (3)

Political Science (delete)

5583

Political Science (change)

- 1003 - change title to: Current Problems in Politics and Government.
2003 - renumber, change title and credit to: 2002, Introduction to Methods and Sources of Political Research. (2-1-2)
2052 - renumber and change credit to: 2053. (3-0-3)
4000 - change credit to 9 or 12 or 15
4753 - change title to: Program Evaluation and Research Methodology. change prerequisite to: Six semester hours of political science or permission of the instructor.
4894 - renumber and change credit to: 4893. (3-0-3)
5023 - change prerequisite to: Six semester hours in international relations or comparative politics or permission of the instructor.
5033 - change title to: Policy Problems in Industrialized States.
5053 - change prerequisite to: Six semester hours in public law or permission of the instructor.
5063 - change prerequisite to: Three semester hours in state and local government or permission of the instructor.
5543 - change prerequisite to: Six semester hours in American government or public administration.

Psychology (add)

5005. Personality Assessment II: Child and Adolescent. (4)
5025. Personality Assessment III: Adult. (4)
5997. Study Abroad. (3 to 6)

Psychology (delete)

5010
5020

Psychology (change)

- 3400 - add to prerequisite: Educational Psychology 3320 or Secondary Education 3320.
4890 - renumber 5110.
5890 - change credit to (1-12) (May be repeated to a maximum of 12 sem. hrs.)

Recreation (change)

- 4410 - change credit to: (4 or 6 or 8)

Secondary Education (delete)

5490

Social Science (change)

- 3400 - add prerequisite: Educational Psychology 3320 or Secondary Education 3320.

Social Science (delete)

4400
4410

Special Education (add)

4995. Educational Aspects of Severe and Profound Impairments (3-0-3)

Speech Communication (add)

3903. The Rhetoric of Women. (3-0-3)

Speech Communication (change)

- 2530 - change to (2-2-3)
3400 - add to prerequisite: Educational Psychology 3320 or Secondary Education 3320.

Speech Pathology and Audiology (delete)

0201
0202
0203

Speech Pathology and Audiology (change)

- 2110 - delete last sentence of description.
2140 - add to description: Students observe in the clinic.
3600 - change title to: Audiology
4700 - add to prerequisite: Speech Pathology and Audiology 1100, 2210, 3300.
4755 - change credit to (3-0-3) (effective Spring 1979)
4760 - change title to: Advanced Audiology.
5350 - change credit to (3)
5470 - change credit to: (1 to 3; or 1 or 2 during Summer). May be repeated for a maximum of 8 sem. hrs.

Student Teaching (change)

- Change first sentence of the second paragraph to read: A student enrolled in a high school curriculum is required to earn 12 semester hours in student teaching. A student may elect to take a total of 15 semester hours in student teaching.

Technical Education (change)

- 3023 - add prerequisite: Technical Education 3013.
3400 - add to prerequisite: Educational Psychology 3320 or Secondary Education 3320.

Theatre Arts (add)

2205. Principles of Stage Makeup. (0-2-4)

Zoology (add)

5700. Aquatic Entomology. (3)

Zoology (change)

- 2999 - delete last sentence of the description.
5100 - change to Life Science 5100
5210 - renumber to 4755.