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Eastern Illinois University Undergraduate Catalog 1975 & 1976

Eastern Illinois University

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Eastern Illinois University

General Catalog 1975 1976

THE STUDENT'S RESPONSIBILITY

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

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the *Eastern News* and posted on the official bulletin board near the Office of the Dean of Student Academic Services. Students are responsible for knowing these changes.

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

THE UNIVERSITY POLICY ON NON-DISCRIMINATION

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

EASTERN ILLINOIS UNIVERSITY

CATALOG

APRIL, 1975

76th YEAR

ACADEMIC RECORD 1975-77 TERMS

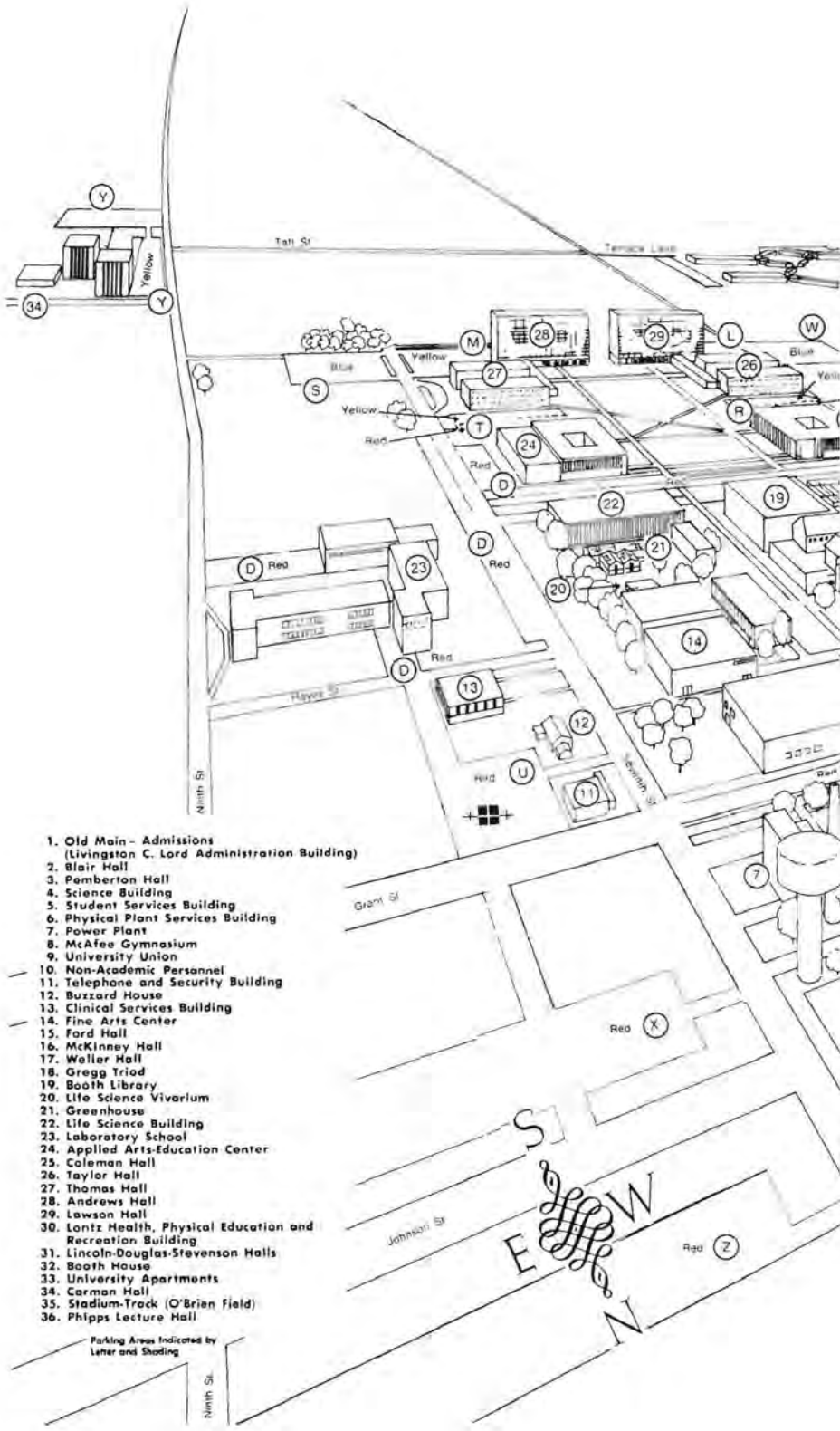
ANNOUNCEMENTS

FOR

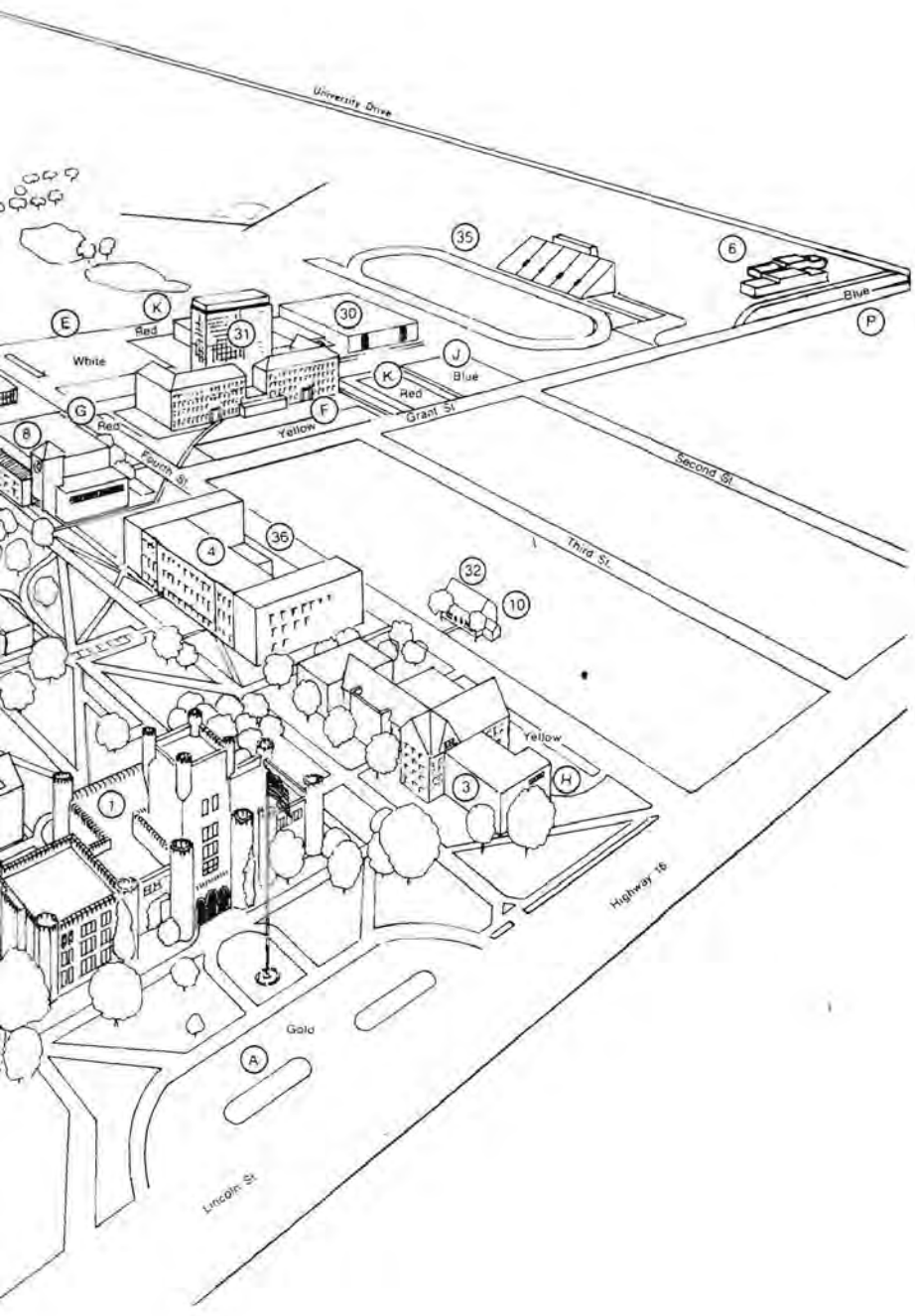
SUMMERS 1975 & 1976

AND

1975-77 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. Fine Arts Center
15. Ford Hall
16. McKinney Hall
17. Weller Hall
18. Gregg Triod
19. Booth Library
20. Life Science Vivarium
21. Greenhouse
22. Life Science Building
23. Laboratory School
24. Applied Arts-Education Center
25. Coleman Hall
26. Taylor Hall
27. Thomas Hall
28. Andrews Hall
29. Lawson Hall
30. Lantz Health, Physical Education and Recreation Building
31. Lincoln-Douglas-Stevenson Halls
32. Booth House
33. University Apartments
34. Carman Hall
35. Stadium-Track (O'Brien Field)
36. Phipps Lecture Hall


University Drive
35
6
Blue
P
K
Red
E
White
31
30
J
Blue
K
Red
G
Red
F
Yellow
Grant St
8
Fourth St
Second St
4
36
Third St
32
10
Yellow
7
3
H
Highway 16
Gold
A
Lincoln St

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This catalog includes information concerning admission, enrollment, fees, housing, course offerings, etc., as it pertains to the academic year 1975-76.

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
1975 - 76

SUMMER TERM 1975

Early Graduate Registration ..... May 10
Pre Session ..... May 19-June 6
Central Registration ..... June 9, 10
Classes Begin ..... June 11
Last Day to Submit Add Requests ..... June 13
Last Day to Apply for Graduation ..... June 16
Last Day for Course Withdrawal Without Grade ... June 16 (5 p.m.)
Begin Automatic W Upon Course Withdrawal ..... June 17
Last Day to Apply for Teacher Certification ..... June 27
Last Day for Automatic W Upon Course Withdrawal ..... July 2 (5 p.m.)
Begin W or WF Upon Course Withdrawal ..... July 3
Independence Day Observance - No Classes ..... July 3, 4
Mid-Term ..... July 8
Constitution Examination ..... July 15
Last Day to Withdraw from Courses or University .. July 24 (5 p.m.)
Commencement ..... August 3
Final Examinations ..... August 4, 5, 6, 7
Term Closes ..... August 8

FALL SEMESTER 1975

Early Graduate Registration ..... August 23
Parents' Convocation ..... August 24
Central Registration ..... August 25, 26
Classes Begin ..... August 27
Labor Day Observance - No Classes ..... September 1
Last Day to Submit Add Requests ..... September 2

Last Day to Apply for Graduation	September 5
Last Day for Course Withdrawal Without Grade	September 5 (5 p.m.)
Begin Automatic W Upon Course Withdrawal	September 6
Last Day to Apply for Teacher Certification	October 10
Mid-Term	October 17
Last Day for Automatic W Upon Course Withdrawal	November 3 (5 p.m.)
Begin W or WF Upon Course Withdrawal	November 4
Constitution Examination	November 4
Thanksgiving Break	November 26 through 30
Last Day to Withdraw from Courses or University	December 4 (5 p.m.)
Final Examinations	December 15 through 19
Semester Closes	December 20 (5 p.m.)

SPRING SEMESTER 1976

Early Graduate Registration	January 10
Central Registration	January 13, 14
Classes Begin	January 15
Last Day to Submit Add Requests	January 20
Last Day to Apply for Graduation	January 23
Last Day for Course Withdrawal Without Grade	January 23 (5 p.m.)
Begin Automatic W Upon Course Withdrawal	January 24
Constitution Examination	February 24
Last Day to Apply for Teacher Certification	February 27
Mid-Term	March 8
Spring Vacation	March 20 through 28
Last Day for Automatic W Upon Course Withdrawal	March 30 (5 p.m.)
Begin W or WF Upon Course Withdrawal	March 31
Easter Break	April 16 through 19
Last Day to Withdraw from Courses or University	April 29 (5 p.m.)
Commencement	May 9
Final Examinations	May 10 through 14
Semester Closes	May 15 (5 p.m.)

SUMMER TERM 1976

Early Graduate Registration ..... June 5
Central Registration ..... June 7, 8
Classes Begin ..... June 9
Last Day to Submit Add Requests ..... June 11
Last Day to Apply for Graduation ..... June 14
Last Day for Course Withdrawal Without Grade ..... June 14 (5 p.m.)
Begin Automatic W Upon Course Withdrawal ..... June 15
Last Day to Apply for Teacher Certification ..... June 23
Independence Day Observance - No Classes ..... July 5
Mid-Term ..... July 6
Last Day for Automatic W Upon Course Withdrawal ..... July 12 (5 p.m.)
Begin W or WF Upon Course Withdrawal ..... July 13
Constitution Examination ..... July 13
Last Day to Withdraw from Courses or University ..... July 27 (5 p.m.)
Commencement ..... August 1
Final Examinations ..... August 2 through 4
Term Closes ..... August 5 (5 p.m.)

FALL SEMESTER 1976
(Tentative)

Early Graduate Registration ..... August 21
Parents' Convocation ..... August 22
Central Registration ..... August 23, 24
Classes Begin ..... August 25
Last Day to Submit Add Requests ..... August 30
Last Day to Apply for Graduation ..... September 3
Last Day for Course Withdrawal Without Grade ..... September 3 (5 p.m.)
Begin Automatic W Upon Course Withdrawal ..... September 4
Labor Day Observance - No Classes ..... September 6
Mid-Term ..... October 15
Last Day for Automatic W Upon Course Withdrawal ..... November 1 (5 p.m.)

Begin W or WF Upon Course Withdrawal ..... November 2

Thanksgiving Break ..... November 24 through 28

Last Day to Withdraw from Classes or University ..... December 2 (5 p.m.)

Final Examinations ..... December 13 through 17

Semester Closes ..... December 18

SPRING SEMESTER 1977 (Tentative)

Early Graduate Registration ..... January 8

Central Registration ..... January 11, 12

Classes Begin ..... January 13

Last Day to Submit Add Requests ..... January 18

Last Day to Apply for Graduation ..... January 21

Last Day for Course Withdrawal Without Grade ..... January 21 (5 p.m.)

Begin Automatic W Upon Course Withdrawal ..... January 22

Mid-Term ..... March 7

Spring Vacation ..... March 19 through 27

Last Day for Automatic W Upon Course Withdrawal ..... March 29 (5 p.m.)

Begin W or WF Upon Course Withdrawal ..... March 30

Easter Break ..... April 8 through 11

Last Day to Withdraw from Courses or University ..... April 28 (5 p.m.)

Commencement ..... May 8

Final Examinations ..... May 9 through 13

Semester Closes ..... May 14

SUMMER TERM 1977 (Tentative)

Early Graduate Registration ..... June 4

Central Registration ..... June 6, 7

Classes Begin ..... June 8

Last Day to Submit Add Requests ..... June 10

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 through 3

Term Closes ..... August 4

THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES

APPOINTED MEMBERS

Felicitas Berlanga, Normal	1973-1975
Howard V. Phalin, Wilmette	1969-1975
E. Leland Webber, Wilmette	1969-1975
Jeffrey R. Ladd, Crystal Lake	1971-1977
Peter Lardner, Rock Island	1971-1977
Dominick J. Bufalino, Chicago	1974-1977
Mrs. Warren Relph, Peru	1973-1979
James J. Cicero, Chicago	1973-1979
Leon Davis, Chicago	1973-1979

OFFICERS

Jeffrey R. Ladd, Chairman
Peter Lardner, Vice Chairman
Jerome Sacks, Acting Executive Officer

STUDENT MEMBERS

David A. Davis, Eastern Illinois University
Rebecca Keller, Governors State University
David Mahoney, Western Illinois University
William Washington, Chicago State University
Paul Zeitler, Northeastern Illinois University

EASTERN ILLINOIS UNIVERSITY

CHARLESTON

CHIEF ADMINISTRATIVE OFFICERS

(Date of joining staff in parentheses)

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

PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS
Peter R. Moody, Ph.D., Cambridge University (1967)

VICE PRESIDENT FOR STUDENT AFFAIRS
Glenn D. Williams, Ph.D., The Ohio State University (1960)

VICE PRESIDENT FOR BUSINESS SERVICES
Harley J. Holt, M.S., University of Wisconsin (1963)

VICE PRESIDENT FOR ADMINISTRATIVE AFFAIRS
Martin Schaefer, Ph.D., The University of Iowa (1958)

APPLIED ARTS • EDUCATION CENTER

I. GENERAL INFORMATION

PURPOSE

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

ACCREDITATION

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

LOCATION

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

HISTORY

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

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

THE CAMPUS

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

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

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

Buzzard House: Financial Aids.

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

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

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

Fine Arts Center: School of Fine Arts.

Florence McAfee Gymnasium: Department of Physical Education.

Francis G. Blair Hall: School of Business.

Life Science Building: Departments of Botany and Zoology.

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

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

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

Robert G. Buzzard Building: Instructional Media; Special Projects; portion of Home Economics; School of Education.

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

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

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

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 Industrial Arts and 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-weeks 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
Ford	150	Taylor South	297
Lawson	480	Thomas	438
Lincoln	194	Weller	150

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

MARRIED HOUSING

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

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

GENERAL SERVICES

COUNSELING

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

EMPLOYMENT

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

INSURANCE

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

The insurance is available 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.

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

MEDICAL

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

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

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.

TESTING

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

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

INSTRUCTIONAL SERVICE

AUDIO-VISUAL SERVICES

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

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

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

The Audio-Visual Center is open daily Monday through Friday 7:30 to 5:00 p.m. and the professional staff is available to the teaching faculty from 8:00 to 5:00 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 noon of the day following the last day of the term. Damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Damage to a book includes underscoring, highlighting, annotating, adding other marginalia, etc. A fine of $1 per book is imposed if the student's textbook record is not clear by the close of the term.

LIBRARY SERVICES

BOOTH LIBRARY

Booth Library is the general library of the University and contains a book stock of over 380,000 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 7,000 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 non-credit course, Elementary Education 0990 — Reading Improvement for University Students for those who recognize a need for guidance and practice with essential reading skills. Specific goals are to help students increase speed of reading, develop flexibility in reading rate, improve comprehension and practice efficient study habits. Major attention is given to vocabulary development and critical evaluation of reading materials. Classes meet at various hours to permit convenience in scheduling. Courses are free to regularly enrolled students and materials are furnished without charge.

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

The Reading Center is located on the second floor of the 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 of speech and hearing obtain required clinical practice by working with these cases under supervision.

SOCIAL AND CULTURAL LIFE AND ACTIVITIES

STUDENT-FACULTY BOARDS

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

UNIVERSITY BOARD

The officers and coordinators of the Universtiy Board are named by the President of the Student Body and approved by the Student Senate. The committees are Coffeehouse, Concerts (approximately six big-name entertainers are brought to the campus each year), Fine Arts (approximately six outstanding fine-arts performers or groups presented each year, most of them free to students with I.D. cards), Lecture (approximately six well-known lecturers on a variety of subjects are brought to the campus each year at no charge to students), Movies (low cost movies are provided every week of the school year), Personnel, Publicity, (including Parents Weekend, ice cream socials, etc.). Recreation, Homecoming, Travel, and Video Tape.

ACTIVITY FEES

Most activities under the supervision of student-faculty boards receive their support from activity fees charged all students. University Board activities are also funded by the activity fees. The allocation of funds from activity fees is made by the 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, game rooms, bowling alley, bookstore, ballroom, lounges, check cashing facilities, lobby shop and offices for the Director, Assistant Director, Director of the Union Food Services, and the Director of Arrangements.

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

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

FORENSICS

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

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

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

INTRAMURAL SPEECH ACTIVITIES

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

STUDENT SPEAKER BUREAU

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

THEATRE

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

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

RADIO-TELEVISION

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

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

STUDENT ORGANIZATIONS

STUDENT GOVERNMENT

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

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

DEPARTMENTAL CLUBS

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

RELIGIOUS ORGANIZATIONS

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

ATHLETIC ORGANIZATIONS

Varsity Club, Women's Recreation Association.

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 Office of the Dean, Student Housing. 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.

SERVICE ORGANIZATIONS

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

SPECIAL GROUPS

Association of International Students, Chess Club, College Democrats, EIU Folk and Square Dance Club, EIU Sports Parachute Club, Eastern Film Society, Eastern Veterans Association, Ski Club, University Council for United Nations, 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
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
Kappa Alpha Psi	
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 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	Gamma Beta Chapter
Zeta Phi Beta	
Alpha Kappa Alpha	

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, $7.50, 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 PENALITES

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 Policy Department. Registration decals are available at the University Policy 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

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

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

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

FEES 1975-76

SEMESTER FEES

Full-Time Student: A student enrolled for 9 through 17 semester hours of work shall pay the following fees:

Fee: (9-11 Semester Hours)	*Illinois Resident*	*Out-of-State Student*
Registration	$160.00	$480.00
*Programs and Services	90.00	90.00
Total	$250.00	$570.00
Fee; (12-17 Semester Hours)		
Registration	$210.00	$633.00
*Programs and Services	90.00	90.00
Total	$300.00	$723.00

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

	Registration Fee			*Totals*	
Semester Hours	*Illinois Resident*	*Out-of-State Student*	**Programs & Services Fee*	*Illinois Resident*	*Out-of-State Student*
18	$230.00	$650.00	$90.00	$320.00	$740.00
19	250.00	670.00	90.00	340.00	760.00
20	270.00	690.00	90.00	360.00	780.00
21	290.00	710.00	90.00	380.00	800.00
22	310.00	730.00	90.00	400.00	820.00

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

Part-Time Student: A student enrolled for less than 9 semester hours of work shall pay the following fees per semester hour:

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

Part-time students are not eligible for health and accident insurance. A part-time student may purchase an activity ticket for the regular price if he wishes, but the activity fee is not included in his Programs and Services fee.

**Breakdown of Programs and Services Fees:*	*Full-Time Fee:*	*Part-Time Per Sem. Hr.*
Activity Fee	$19.00	$ —
Bond Revenue Building Fee	33.50	2.80
Textbook Rental Fee	14.00	1.20
Health and Accident Insurance	11.50	—
Grants-in-Aid Fee	9.00	.75
Minority Student Fee	3.00	.25

SUMMER FEES

Full-Time Student: A student enrolled in the summer term for 7 or more semester hours of work shall pay the following fees:

Fee:	*Illinois Resident*	*Out-of-State Student*
Registration	$135.00	$405.00
*Programs and Services	55.00	55.00
Total	$190.00	$460.00

Note: Total charge for the pre-session and the regular session will be no more than $190 for Illinois residents ($460 for Out-of-State students) when taken in combination.

Part-Time Student: A student enrolled for less than 7 semester hours of work shall pay the following fees per semester hour:

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

Part-time students are not eligible for health and accident insurance. A part-time student may purchase an activity ticket for the regular price if he wishes, but the activity fee is not included in his Programs and Services fee.

**Breakdown of Programs and Services Fees.*	*Full-Time Fee.*	*Part-Time Per Sem. Hr.:*
Activity Fee	$11.85	$ —
Bond Revenue Building Fee	20.95	2.80
Textbook Rental Fee	8.75	1.20
Health and Accident Insurance	6.00	—
Grant-in-Aid Fee	5.60	.75
Minority Student Fee	1.85	.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 or who fails to pay all fees on enrollment day. This fee is non-refundable. No enrollments are accepted after the sixth calendar day following the first day of classes.

Student Identification Card. Student I.D. cards are issued to new students their first term of enrollment upon presentation of the fee card indicating payment of registration fees. A fee of $2 is charged for a 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 noon following the last day of the term. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, high-lighting, annotating, adding other marginalia, etc.

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

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

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

RESIDENCE HALL FEES

Housing Security Deposit: A $25 housing security deposit must accompany an application for residence hall accommodations. The deposit will be held by the University as a damage fee and a guarantee of contract fulfillment. The deposit will be refunded, upon written request, 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: $560 for the fall semester, and $535 for the spring semester, if paid in full. There is an additional $3 per semester charge if paid in installments, on dates set by the University. Failure to make the advance payment according to the terms of the residence hall contract could result in cancellation of the residence hall contract and forfeiture of the Housing Security Deposit. Cancellation of a hall contract after the deadline date for each term will result in the forfeiture of the advance payment or if not paid, a charge of that amount (presently $160), 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 under-

stood 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 succeding 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 office of the Dean, Student Housing. Failure to make payment on the assigned date or the deferral date will result in the assessment of a $10 late payment fee.

OFFICIAL RECEIPTS

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

REFUNDS

WITHDRAWAL

Regular. If a student withdraws from the University during a term by completing the procedure described in Section V and if the initiation and completion of the withdrawal is made through the office of 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.

DENIED ADMISSION

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

BOARD AND ROOM

Refund of the advance payment for any term will be made upon receipt of a written request addressed to the Dean, Student Housing, and postmarked *on or before the advance payment date for that specific term.* Cancellations after the advance payment date will result in the forfeiture of the advance payment (currently $160) 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 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, 1975.
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, 1975 and be certified for payment by the instructor.
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 1975-76;
f. Demonstrate financial need as determined by the Commission;
g. Submit the required application form by the October 1, 1975 deadline date.

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. For those enrolled as students, applications must be made no later than October 1, 1975. For those not enrolled as students, applications should be made immediately upon the decision to attend college. A college choice must be indicated at the time of application, but this choice may be changed at any time by notifying ISSC.

Military Scholarship. See Section on **Veterans Benefits.**

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

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

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

UNIVERSITY AWARDS

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

Grants-in-Aid. Eastern offers in excess of 100 grants-in-aid annually to students who show promise or demonstrate a talent in fields which require public presentation of that talent. Among these fields are art, athletics, debate, student publications and music. 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 Adviser.

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 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.

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

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

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

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

Thomas R. Drury Scholarship. Established in memory of Thomas R. Drury, an alumnus of Eastern. The award is presented annually to a student admitted to Eastern's Graduate School and who plans to pursue a career in instructional media. The selection committee is composed of representatives of the School of Education, Instructional Media Services, and the Illinois Audio-Visual Association.

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

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

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

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

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

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

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

Martin Luther King, Jr., Scholarship. Established by the Eastern Illinois Chapter of the American Association of University Professors in memory of Dr. Martin Luther King, Jr. The award goes annually to one or more Eastern students who are "living examples of the ideals and values expressed by Martin Luthern 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 contributions 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 a 1906 Eastern graduate. The

award is made to an art major or minor who has completed the second semester of the sophomore year.

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

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

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

Ernest L. Stover Scholarship. Established in honor of 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.

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

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

LOANS

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

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

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

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

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

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

MAXIMUM LOAN AMOUNTS

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

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

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

The Florence McAfee Loan Fund. Physical education majors and minors, alumnae, and staff established this fund in honor of 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.

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 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 a U.S. citizen. Information and application forms are available in the Office of Financial Aids.

VETERANS BENEFITS

The Veterans Act of 1966, Public Law 358, provides educational benefits to veterans who have completed 181 days or more of federal active duty (six-month enlistees are not eligible) terminating with an honorable discharge on or after February 1, 1955. The law provides one-and-one-half months benefits per month of service up to eighteen months. A veteran with eighteen or more months of service will receive the maximum of thirty-six months. Minimum monthly benefits are $270 for a full-time student. Applications are processed by the Office of Veterans Services.

Public Law 634. War Orphans may receive training under Public Law 634. Minimum monthly benefits are $270 for full-time students.

Public Law 815. Veterans with 30% or more disability are eligible for training under Public Law 815 with special disability benefits. Minimum monthly benefits are $201 for full-time students in addition to payment of all fees and reasonable amount of supplies.

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

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

MILITARY SCHOLARSHIP

Any person who served in the armed forces of the United States after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged, may be awarded a scholarship provided he has the required

period of service. A veteran discharged after August 11, 1967, must have a minimum of one year's active service. If discharged prior to this date, he needs only an honorable separation from service. Application should be made by filing a photostatic copy of the discharge or separation papers with the Office of Veterans Services. This scholarship may be used concurrently with the GI Bill.

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

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

ILLINOIS ORPHANS EDUCATION ACT

The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans and children of veterans who are totally and permanently disabled from a service-connected disability. Qualified students, ages 10 to 18, may receive up to $150 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 OPPORTUNITY GRANT

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

BASIC EDUCATIONAL OPPORTUNITY GRANT

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

In order for a student to receive a Basic Grant, he must have enrolled in a post-secondary institution for the first time on or after April 1, 1973, must have been accepted for enrollment at an eligible institution of higher education on a full-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, West Route 16, Box 309, Charleston, Illinois 61920, 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.

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 228 approved positions in departments and administrative offices. Write to the Director of Financial Aids for information.

TIME
QTR
VISITORS

IV. ADMISSION, READMISSION, ENROLLMENT AND ADVISEMENT

ADMISSION

POLICIES

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

Acceptance of applications and granting of admissions are subject to completion of the application process (see Procedures section). Completed applications 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 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 Dean, Student Housing (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 six semester hours during the summer term preceding their senior year in high school and not more than three 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 a minimum score of 450 on the TOEFL.

GRADUATE STUDENTS

See Section VIII. Graduate Study

PROCEDURES FOR APPLYING FOR ADMISSION

Beginning Freshmen:

1. Obtain an application for admission after the fifth semester from:
   Director of Admissions
   Eastern Illinois University
   Charleston, Illinois 61920
2. Complete the application form and give it to the high school principal or guidance counselor. He will complete the form and return it to the University *after the sixth semester rank is available.*
3. Complete the health and medical form and forward it directly to the Director of Health Services.
4. Send the non-refundable fee of $15 by check or money order made payable to Eastern Illinois University along with the admission fee data card to: Cashier, Business Office, Eastern Illinois University, Charleston, Illinois 61920.
5. Each student applying for admission must submit scores from the 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 a minimum score of 450 on the TOEFL.

Transfer Students:

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

A transfer applicant need not provide a high school transcript or ACT or SAT scores. 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 transcipts 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 reserveration 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 one semester.

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

ACCEPTANCE OF CREDIT FOR OTHER WORK

Credit for Courses in Other Colleges and Universities. Advanced standing and transfer credit are granted for courses passed in accredited colleges and universities. Students transferring from Illinois public community colleges will have met the English, Health Education, and Speech requirements if they have taken six semester hours of English, with at least three hours being in composition, a course in Health Education, and a course in Speech.

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 hours of academic work.

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

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

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

Credit for Military Service. 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 ordinarily accepted by the University.

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

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

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

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

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

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

Credit for College Level Examination Program 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. If the student's achievement level is at or above the minimum level established by the University, credit may be granted in the following subjects:

Afro-American History
American Government
American History (essay required)
Biology
Introductory Business Law (essay required)
Introduction to Business Management (essay required)
Introductory Calculus
General Chemistry
Elementary Computer Programming—Fortran IV (essay required)
Computers and Data Processing (essay required)
Introductory Economics
English Composition (essay required)
Geology (essay required)
History of American Education
Human Growth and Development
Analysis and Interpretation of Literature (essay required)
Introductory Marketing (essay required)
Money and Banking
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 CLEP and/or Advanced Placement 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 that 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 department no later than the end of the term following the one for which the assigned grade was recorded.

GRADE POINT AVERAGE[1]

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.

[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 ÷ 13 = 2.00.

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 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 Beyond Bachelor's	Minimum GPA
0 – 3	1.00
4 – 10	1.50
11 – 16	1.75
17 and above	2.00

REINSTATEMENT FOLLOWING ACADEMIC DISMISSAL

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

ACADEMIC EXCLUSION

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

ACADEMIC LOAD

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

UNDERGRADUATE STUDENT

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

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

Summer Term. The normal load during a summer term is 6 – 9 semester hours. Overloads for the summer term may be taken if the student qualifies (see below) but may not exceed 10 semester hours of undergraduate course credit.

Credits for Workshops. Credits for workshops or clinics conducted through Continuing Education are included in the above maximum loads if workshops occur during the same time as the regular session.

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

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

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

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

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

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

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

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

GRADUATE STUDENT

A graduate student may take no more than 16 semester hours during a 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:

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

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

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

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

Courses Excluded.

a. 1000 level courses used to satisfy general education requirements may not be taken pass-fail with the exception of French 1001, German 1001, Russian 1001, and Spanish 1001.
b. Professional education courses required in a teacher certification program may not be taken pass-fail.
c. Courses required in the student's declared major or program and specified by course number in the catalog major description may not be taken pass-fail by students in that particular major or program. Further, where the catalog major or program description allows a selection of courses from a set of courses identified by subject-title or course number, none of the courses in the set may be taken pass-fail by students in that major or program.

WITHDRAWAL FROM A COURSE

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 the 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 Political Science (1104 and 2603), or 2011, and applying to the Records Office.
6. A transfer student must successfully complete a minimum of 12 semester hours in residence in his major discipline.
7. A transfer student must successfully complete a minimum of 56 semester hours applicable to a baccalaureate degree in senior institutions.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

A student will be awarded all degrees for which he has completed requirements. 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 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 Industrial Arts and Technology	80
School of Health, P.E. and Recreation	80
Medical Technology	64
All others	70

A student may expect to receive from his school or college an evaluation of his progress toward completion of graduation requirements approximately one month after the beginning of the ensuing 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; specialist's degree, $20.

All requirements for degrees must have been completed by the close of the semester in which graduation is sought. It is the student's responsibility to notify the Records Office of any non-campus courses being taken which will complete the requirements for graduation. Documentary evidence that all degree requirements have been completed must be in the Records Office no later than the Friday immediately preceding the first day of regulation 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 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 Graduate Record Exam) as those enrolling in comparable courses taught in residence. An application for admission to graduate study must be filed prior to or at the time of enrollment for the first graduate course from Eastern.

ENROLLMENT PROCEDURES

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

FEES (Subject to Change)

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

CREDIT FOR OFF-CAMPUS COURSES

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

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

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

DEGREES AND MAJORS

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

COLLEGE OF ARTS AND SCIENCES

LIBERAL ARTS PROGRAMS

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

Degrees	*Majors*	
Bachelor of Arts	Community Press Media	Mathematics
	Economics	Philosophy
	English	Political Science
	French	Psychology
	German	Sociology
	History	Spanish
		Speech-Communication
Bachelor of Science	Afro-American Studies	Geology
	Botany	Medical Technology
	Chemistry	Physics
	Computational Mathematics	Speech Pathology & Audiology
	Environmental Biology	Zoology
	Geography	

TEACHER EDUCATION PROGRAMS

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

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

Degrees	*Majors*	
Bachelor of Arts	Economics[1]	Psychology
	English	Social Science
	French	Sociology
	German	Spanish
	History	Speech-Communication
	Mathematics	
	Political Science[1]	
Bachelor of Science	Botany	Physics
	Chemistry	Speech Pathology & Audiology[2]
	Geography	Zoology

TEACHING MINORS

Afro-American Studies	History	Psychology
Chemistry	Journalism	Russian
English	Latin	Social Science
French	Library Science	Spanish
Geography	Mathematics	Speech Communication
German	Physics	

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	*Majors*
Bachelor of Science	Medical Technology
	Engineering
	Pre-Medicine

SCHOOL OF BUSINESS

PROFESSIONAL BUSINESS PROGRAM

Degree	*Majors*
Bachelor of Science in Business	Accounting
	Administrative Office Management
	Automated Information Systems
	Finance
	Management
	Marketing

No minor is required or noted on the transcript.

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

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

TEACHER PREPARATION PROGRAM

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

Degree	*Major*
Bachelor of Science in Education	Business Education

TEACHING MINORS

Accounting	Secretarial
General Business	Typewriting and Bookkeeping

SCHOOL OF EDUCATION

Degree	*Majors*
Bachelor of Science in Education	Elementary Education
	Elementary-Special Education
	Junior High School Education

TEACHER EDUCATION

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

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

Teacher preparation programs require admission to teacher education (see below), successful completion of general education courses and professional education courses, including student teaching (see Teaching Practicum, page 73), and specialized study of one or more disciplines which the student plans to teach. Upon completion of an approved program, teaching candidates are qualified to receive a bachelor's degree and are recommended for an Illinois teaching certificate as follows:

Degree	*Teaching Certificate*
B.S.Ed.	Standard Elementary Certificate, Grades K through 9
B.A., B.S., B.S.Ed.	Standard High School Certificate Grades 6 through 12
B.A., B.Mus., B.S., B.S.Ed.	Standard Special Certificate, Grades K through 12

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

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

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

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

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

The secondary teaching candidate may pursue one of several degree programs and should consult the department offering the program in which he desires to major. Disciplines which offer programs for high school teachers with a standard high school certificate are: Botany, Business Education, Chemistry, Economics, English, French, German, Spanish, Geography, Health Education, History, Industrial Arts Education, Mathematics, Physical Education for Men, Physics, Political Science, Psychology, Social Science, Sociology, Speech-Communication, Theatre Arts, and Zoology. Disciplines which offer programs for high school teachers with a standard special certificate are: Art Education, Home Economics Education, Music Education, 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: Courses required for all persons in the above programs to complete the certification requirements are as follows:

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

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

EXPERIMENTAL SECONDARY EDUCATION PROGRAM

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

Note for Transfer Students Who Pursue A Teacher Certification Program.

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

ADMISSION TO TEACHER EDUCATION

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

Application forms are secured at a meeting scheduled each semester by the Assistant Dean, School of Education. Dates of these meetings are posted outside Room 125, 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.

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.

Participants in the teaching practicum must attain 90 semester hours or more toward graduation and comply with all regulations and qualifications relative to admittance to teacher education. Students must earn at least three semester hours of the required teaching practicum

* 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.

credit in the Eastern Illinois University teaching practicum program for graduation. Post baccalaureate students completing requirements for teacher certification at Eastern Illinois University must complete six semester hours of teaching practicum.

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

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

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

APPLICATION FOR ASSIGNMENT

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

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

SCHOOL OF FINE ARTS

PROFESSIONAL PROGRAMS

Degree	*Majors*
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.

Degree	*Majors*
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

Degree	*Majors*
Bachelor of Science	Physical Education
	Recreation

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

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

Degree	*Majors*
Bachelor of Science	Health Education
	Physical Education (K-12)[1]
	Physical Education (6-12)[1]

TEACHING MINORS

Health Education
Physical Education
Safety and Driver Education

SCHOOL OF HOME ECONOMICS

PROFESSIONAL PROGRAM

Degree	*Major*
Bachelor of Science	Home Economics

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

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

Degree	*Major*
Bachelor of Science	Home Economics Education

TEACHING MINOR

Home Economics Education

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

PROFESSIONAL PROGRAM

Degree	*Major*
Bachelor of Science	Industrial Technology

No minor is required or noted on the transcript.

TEACHER PREPARATION PROGRAM

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

Degree	*Major*
Bachelor of Science	Industrial Arts Education

[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.

TEACHING MINOR

Industrial Arts Education

MINORS

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

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

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]	10
Social Studies[4]	10
Mathematics-Science[5]	10
Total	41 sem. hrs.

COURSES ALLOWED FOR THE DISTRIBUTION REQUIREMENTS IN GENERAL EDUCATION

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

*Students transferring from Illinois colleges will have met the English, Health Education, and Speech-Communication requirements if they have taken six semester hours of English, with at least three hours being in composition, a course in Health Education, and a course in Speech, respectively.

[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 ten semester hours in more than one of the following: literature-language, music, art, theatre arts, speech-communication, philosophy, dance.

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

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

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

METHODS COURSES.

Courses referred to as methods courses or methods of teaching courses, even though designated as courses in appropriate disciplines may *not* count. Specifically these excluded courses are: Art 2410, 2440, 3410, English 3400, French 3400, German 3400, Latin 3400, Russian 3400, Spanish 3400, Geography 3400, Health Education 3400, Life Science 3400, Mathematics 3200, 3210, 3400, Physical Education 3400, Physical Science 3400, Psychology 3400, Social Science 3400, Music 2440, 3400, 3439, 3440, and Speech-Communication 3400.

HUMANITIES COURSES WHICH APPLY.

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

Linguistics: Linguistics 3350.

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

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

Philosophy: Philosophy courses numbered below 4000.

Speech-Communication: Speech-Communication 2300, 2320, 2340, 2540, 3170, 3230, 3300, 3830.

Theatre Arts: Theatre Arts 1133, 2240, 2281, 3333, 3398, 3431, 3751, 3752, 3920, 3960, 3990.

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

SOCIAL STUDIES COURSES WHICH APPLY.

Courses numbered below 4000 in anthropology, economics, geography, history, political science, psychology, and sociology except Geography 3800, 3810, and 3950. Afro-American Studies 2000 and Home Economics 3831 may be used.

MATHEMATICS — SCIENCE COURSES WHICH APPLY.

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

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

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

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

REQUIREMENTS FOR MAJORS AND MINORS FOR UNDERGRADUATE DEGREES

ACCOUNTING (B.S. BUS.)

Major:

Accountancy 2010, 2020, 3000, 3040, 3050, 4610, 4850	30 sem. hrs.
Management 2300, 3010, 3460, 3470, 3700, 3810, 4360	21
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
Total	77 sem. hrs.

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

ADMINISTRATIVE OFFICE MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 2240, 2250, 3220, 3230, 4750	15
Management 2300, 3010, 3460, 3470, 3700, 3810, 3830, 4360	24
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
Total	73 sem. hrs.

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

AFRO-AMERICAN STUDIES (B.S.)

Major:

Afro-American Studies 2000	3 sem. hrs.
Art 3300	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 4580, 4760, History 3050, 3060, Music 3563, 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 3300	3 sem. hrs.
English 2705, 4750	6
History 3110, 3120	6
Music 2561	2
Three courses from: Anthropology 2730, 3611, Geography 4580, History 3050, 3060, 4130, Political Science 3353, Psychology 4700, Sociology 2710, 3810, 4740	9
Total	26 sem. hrs.

ART EDUCATION (B.A. FOR TEACHER CERTIFICATION)

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

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

(Major GPA based on art courses only.)

ART (B.A.)

Major: (Art)

Art History Option:

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

Art Studio Option:

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

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

Area II:
(Ceramics, Jewelry and Silversmithing, Sculpture, Weaving): Art 2250, 2700, 2800; eighteen semester hours chosen from Art 3111, 3112, 3251, 3252, 3340, 3701, 3702, 3801, 3802, 4111, 4112, 4251, 4252, 4400, 4701, 4702, 4800; nine semester hours chosen from art history or Area I. Total, 36 semester hours.

(Major GPA based on art courses only.)

AUTOMATED INFORMATION SYSTEMS (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 2310, 3010, 3310, 3320, 3330, 3460, 3700, 3810, 4360, 4610	33
One of the following: Management 3800, 3820, 4300	3
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
Total	70 sem. hrs.

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

BOARD OF GOVERNORS DEGREE PROGRAM (B.A.)

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

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

BOTANY (B.S.)

Major:

Botany 1010; 1022 or 2503; 2290, 2300, 3350, 3361, 3541, 4611, 4851	28-29 sem. hrs.
Chemistry (1310 or 1300); 1315; (1410, 1415) or (1510, 1515)	8
Life Science 1000, 3010	6
Zoology 1010	4
Electives in botany (except Botany 3450)	6
Electives in mathematics and science*	12
Total	64-65 sem. hrs

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

*Organic chemistry and either Geology 1400 or Earth Science 1410 are recommended.

BOTANY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Botany 1010, 1022, 2290, 2300, 3361, 3541	19 sem. hrs

Chemistry 1310 or 1300; 1315; (1410, 1415) or (1510, 1515)	8
Geology 1400 or Earth Science 1410	4
Life Science 1000, 3010, 3400	9
Zoology 1010; 2000 or 2100; 3000 or 3100; 3300, 3700	17-19
Electives in botany	8
Total	65-67 sem. hrs.

(Major GPA based on Life Science 1000, 3010, 3400, and botany courses only.)

BUSINESS EDUCATION (B.S. ED.)

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

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

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

Comprehensive Basic Business Option:

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

Comprehensive Secretarial Option:

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

Comprehensive Vocational Business Education Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010	4
Business Education 3000, 3400, 4920, 4940	11
Management 2300, 3460, 3470	9
Economics 2801, 2802	6
Office Occupations Emphasis or Marketing Emphasis	19
Total	55 sem. hrs.

Office Occupations Emphasis:

Two of Business Education 1240, 1250, 2240, 2250

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

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

(Major GPA based on all business courses taken.)

BUSINESS EDUCATION (B.S. ED.)

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

Accounting and Secretarial Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Two of Business Education 1240, 1250, 2240, 2250	6
Accountancy 2010, 2020	8
Business Education 3220, 3400, 3430	7
Management 2300	3
One of Business Education 3420, 3440	2
Economics 2801, 2802	6
Total	38 sem. hrs.

Accounting and Data Processing Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3000, 3400, 3430	7
Management 2300, 3460	6
Advanced accounting courses or Management 2310, 3310	6
Economics 2801, 2802	6
Total	39 sem. hrs.

Secretarial Option:

Business Education 2110, 2240, 2250, 3000, 3220, 3230, 3400, 3420, 3440	24 sem. hrs.
Management 2010, 3460, 3470	9
Economics 2801, 2802	6
Total	39 sem. hrs.

(Major GPA based on all business courses taken.)

Minor: (Four options) (for teacher certification)

Accounting Option:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 3400, 3430	4
Management 2300	3
Advanced accounting courses	9
Total	24 sem. hrs.

General Business Option:

Accountancy 2010, 2020	8 sem. hrs.
Business Education 3000, 3400, 3410	7
Management 2300, 3460, 3470	9
Total	24 sem. hrs.

Secretarial Option:

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

Typewriting and Accounting Option:

Two of Business Education 1110, 1120, 2110	6 sem. hrs.
Accountancy 2010, 2020	8
Business Education 3220, 3400	5
One of Business Education 3430, 3440	2
Management 2300	3
Total	24 sem. hrs.

CHEMISTRY (B.S.)

Major:

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

(Major GPA based on chemistry courses only.)

CHEMISTRY (with Management Option) (B.S.)

Major:

Chemistry 1310 (or 1300); 1315, 1510; 1720 or (1515 and 2340)	10-11 sem. hrs.
Chemistry 2830, 2835, 2840, 2845, 3910, 4760, 4780	17
Electives in chemistry	3
*Mathematics 2351, 2352	8
Physics 1350, 1360	8
Accountancy 2010, 2020	8
Economics 2801, 2802	6
Management 2300, 3010, 3460, 3700, 3810, 4360	18
Marketing 3470	3
Total	81-82 sem. hrs.

(Major GPA based on chemistry courses only.)

* Mathematics 2320 is strongly recommended.

CHEMISTRY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

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

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

Minor: (for teacher certification)

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

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

COMMUNITY PRESS MEDIA (B.A.)

Major:

Journalism 2100, 2101, 2102, 3001, 3100, 3101, 3102, 4100, 4101	21 sem. hrs.
Courses chosen from the following: Economics 3835, English 2003, Industrial Arts 4113, Philosophy 3300, Political Science 2603, 3733, Sociology 3681, Speech Communication 1400, 2520	15
Courses offered in College of Arts and Sciences chosen in consultation with student's advisor	12
Total	48 sem. hrs.

(Major GPA based on journalism courses only.)

COMPUTATIONAL MATHEMATICS (B.S.)

Major:

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

(Major GPA based on mathematics courses only.)

ECONOMICS (B.A.)

Major:

Economics courses including 2801, 2802, 4801, 4802, 4991, and excluding 3810, 4859	36 sem. hrs.

(Major GPA based on economics courses only.)

ECONOMICS (B.A. FOR TEACHER CERTIFICATION)

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

Major: (Standard High School Certificate)

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

I – 8 sem. hrs. in U.S. History and 8 sem. hrs. in European History. Total, 16 sem. hrs.

II – 8 sem. hrs. in each of two of the following: geography, political science, sociology. Total, 16 sem. hrs.

III – 12 sem. hrs. in accounting or 6 sem. hrs. in each of two business subjects to be chosen from the following: accounting, data processing, business law, salesmanship (including marketing and advertising).

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

ELEMENTARY EDUCATION (B.S. ED.)

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

Required Courses

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

Art 1400	3 sem. hrs.
Elementary Education 1230, 2320, 3240, 3270, 3280, 3290	17
Educational Foundation 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics 2220*, 3190	5
Music 1421	2
Physical Education 3600	2
Physical Science 1000, 1010	**4

* Placement in these courses (or permission to omit them) will be determined by the Mathematics Department.
** Four semester hours in Physics or chemistry, including laboratory work, will fulfill this requirement.

Psychology 2310 3
Natural Science elective 3
Social Studies electives 6
Speech-Communication 1310 3
Student Teaching 4308 8
U.S. History or U.S. government 3
Humanities 5
Subject concentration(s) 20-22
Electives as needed to complete 120 semester hours
One of the following options:

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

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

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

Subject Areas of Concentration

Areas of Concentration consist of courses taken *in addition to the General Education Requirements*. Any deviation from courses indicated here must be approved by the Dean of the School of Education. Transfer students will have their completed course work evaluated by the Dean of the School of Education or his designated representative.

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

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

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

Art: 3090, 3190; electives.

Biological Science: Botany 1010*, 1022; Zoology 1010*; electives.
*If not used to satisfy General Education Requirements.

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

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

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

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

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

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

Home Economics-Health Education: Health Education 3200; Home Economics 3820* or 4840*; electives.
*Prerequisites for these two courses are waived for elementary education majors.

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

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

Mathematics: 4820; electives other than Mathematics 1290.

Music: Music 2421, 2422; electives from: 1136 or 1137, 1203, 1204, 2136, 2203, 2204, 3561, 3562, 3563, 3564.

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

Physical Education: PE 3610, 3620, 3630; 3 semester hours of electives from health education, physical education, or recreation.

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

Psychology: Select courses compatible with professional goals and interests.

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

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

Speech Pathology and Audiology: 2140, 2210, 4800.

FLEXIBLE PROGRAM FOR ELEMENTARY MAJORS WITH A 3.50 CUMULATIVE GPA

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

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

Art 1400	3 sem. hrs.
Elementary Education 2320, 3240, 3270, 3280	12
Educational Foundations 4450	3
English 1001, 1002	6
Health Education 1200	2
Life Science 1000	3
Mathematics Electives	5
Music 1421	2
Physical Education 3600	2
Physical Science 1000, 1010	4*
Psychology 2310	3
Science Elective	3
Social Studies Electives	6

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

Speech-Communication 1310	3
Student Teaching 4308	8
U.S. history or U.S. government	3
Humanities	5
Electives	47
Total	120 sem. hrs.

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

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

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

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

Required Courses

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

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

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

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

* Placement in these courses (or permission to omit them) will be determined by the Mathematics Department.
** Four semester hours in physics or chemistry, including laboratory work, will fulfill this requirement.

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

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

ENGINEERING (B.S.)

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

Specific Courses:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
English 1001, 1002	6
Health Education 1200	2
Humanities electives	10
Industrial Arts 1043	3
Mathematics 1340 or 1320; 2351, 2352, 2353, 3501	17 or 19
Physics 1350, 1360, 2370, 2390, 2400	17
Speech-Communication 1310	3
Social Studies electives	10
Total	76 or 78 sem. hrs.

Elective credit to bring the total to 90 semester hours.

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

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

ENGLISH (B.A.)

Major:

English 2601, 4300	8 sem. hrs.
Twelve three-semester-hour courses, selected to satisfy groups 2 through 12, and also so that the student has at least three courses in one group of his choosing	36
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, 3350, 3541	16 sem. hrs.
Botany 3361 or Zoology 3200	3
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Earth Science 1410 or 1420 or Geology 1400	3-4
Economics 3810	3
Life Science 1000, 3010, 4080, 4750	21
Zoology 1010; 2000 or 2100; 3100, 3300, 3700	18-19
Two of the following: Botany 4611, Zoology 4800, 4810	6
Two of the following: Geography 3870, Political Science 3733, Sociology 3622	6
Total	84-86 sem. hrs.

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

FINANCE (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3460, 3700, 3710, 3720, 3810, 4200, 4360, 4830	30
Three of the following: Management 3470, 3900, 4390, 4840	9
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
Total	73 sem. hrs.

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

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

Major:

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

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

(Major GPA is based on courses in the major only.)

FOREIGN LANGUAGE — FRENCH, GERMAN, OR SPANISH (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

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

Note: Students with a background of high school units in French, German, or Spanish do not receive university credit for those units. See Section X under Foreign Languages.

(Major GPA is based on courses in the major only.)

FOREIGN LANGUAGE — FRENCH, GERMAN, LATIN, RUSSIAN, OR SPANISH

Minor: (for teacher certification)

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

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

GEOGRAPHY (B.S.)

Major:

Courses chosen from Earth Science 1410; 1420 or 3000; 2420	6-7 sem. hrs.
Courses chosen from Geography 3020, 3510, 3720, 4510, 4520, 4530, 4550, 4580	6-8
Courses chosen from Geography 1500, 3600, 3620, 3650, 3700, 3750, 3870, 3950, 4710, 4730, 4760	6
Courses chosen from Geography 3580, 3800, 3810, 4770, 4800	6-8
Geography electives	12
Total	36-41 sem. hrs.

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

GEOGRAPHY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Courses chosen from Earth Science 1410; 1420 or 3000; 2420	6-7 sem. hrs.
Courses chosen from Geography 3020, 3510, 3720, 4510, 4520, 4530, 4550, 4580	6-8
Courses chosen from Geography 1500, 3600, 3620, 3650, 3700, 3750, 3870, 3950, 4710, 4730, 4760	6
Courses chosen from Geography 3580, 3800, 3810, 4770, 4800	6-8
Geography 3400 or Social Science 3400	3
Geography electives	12
Total	39-44 sem. hrs.

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

Minor: (for teacher certification)

One of the following: Earth Science 1410, 1420, 2420, 3000	3-4 sem. hrs.
One of the following: Geography 3020, 3720, 4510, 4520, 4530, 4550, 4580	3
One of the following: Geography 1500, 3600, 3620, 3650, 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, 4400, Earth Science 2420, Geography 3800, 4800	7
Geology 1400, 2430, 2440, 3430, 3440, 3450, 4450, 4490	25
Life Science 1000	3

Mathematics 1300, 1310, 1340	8
Physics 1350	4
Zoology 1010 or Botany 1010	4
Total	59 sem. hrs.

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

HEALTH EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Health Education 2270, 3200, 3400, 3750, 4000, 4010, 4020	19 sem. hrs.
Life Science 1000	3
Zoology 3000 or Zoology 3100	3 or 4
Nine or ten semester hours chosen from: Botany 2340 or Home Economics 3190; Health Education 1320 or 3000; 2900, 3300, 3500, 4741, 4742, 4743, 4744, 4745, 4746, 4760, 4800, 4820, 4900, 4996; Home Economics 2800 or Sociology 4730; Life Science 3010, Psychology 3550, Sociology 4702	10 or 9
Total	35 sem. hrs.

(Major GPA based on health education courses only.)

Minor: (for teacher certification)

Health Education 1200, 2270, 3200, 3400*	7-10 sem. hrs.
From Health Education 1320 or 3000; 2900, 3300; 3500 or Home Economics 2800; 3750, 4760, 4800, 4820, 4996; Home Economics 3190; Life Science 3010; Psychology 3550; Zoology 1010 or 2000; 3000	13-10
Total	20 sem. hrs.

* Health Education 3400 may be omitted if student has credit in a methods course in one of the following: business education, geography, life science, physical science, psychology, or social science.

HISTORY (B.A.)

Major:

History 1510, 1520, 2010, 2020, 3500; 3510 or 3520	18 sem. hrs.
History electives above 3000 to include six semester hours in American history (U.S. or Latin American) and six semester hours in non-American history	25
Total	43 sem. hrs.

(Major GPA based on history courses only.)

HISTORY (B.A. FOR TEACHER CERTIFICATION)

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

History 1510, 1520, 2010, 2020, 3500; 3510 or 3520	18 sem. hrs.

History electives above 3000 to include three semester hours in U.S. history, three semester hours in American history (U.S. or Latin American), and six semester hours in non-American history	19
Social Science 3400	3
Total	40 sem. hrs.

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

HISTORY (B.A. FOR TEACHER CERTIFICATION)

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

History 1510, 1520, 2010, 2020, 3500; 3510 or 3520	18 sem. hrs.
History electives above 3000 to include three semester hours in U.S. history, three semester hours in American history (U.S. or Latin American), and six semester hours in non-American history	15
Social Science 3400	3
Total	36 sem. hrs.

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

Minor: (for teacher certification)

U.S. history	9 sem. hrs.
American history (U.S. or Latin American)	3
Non-American history	12
Social Science 3400*	3
Total	27 sem. hrs.

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

HOME ECONOMICS (B.S.)

Major: (Home Economics)

Dietetics Option:

Botany 2340	3 sem. hrs.
Chemistry 1310, 1315, 1410, 1415, 2430, 2435, 3460	17
Economics 2801	3
Elementary Education 2320	3
Home Economics 1120, 1150, 2120, 3120, 3140, 3150, 3400, 4140, 4150	24
Management 3010	3
Mathematics 1250	4
Psychology 2310, 3620	6
Sociology 2710	3
Zoology 3000	3
Area I or II or III	0-7
Area I (Food Service Management): Accountancy 2010, Management 3450. Total – 7.	
Area II (Education): no additional courses.	
Area III (Experimental and Developmental Foods): Home Economics 3920, Marketing 3500. Total – 5.	
Total	69-76 sem. hrs.

Home Economics in Business Option:

Economics 2801, 2802	6 sem. hrs.
Home Economics 1150, 2244, 2250, 2270, 3300, 3920, 4300	17
Journalism 3102	2
Management 2010	3
Marketing 3470	3
Psychology 2310; 3550 or 4870	5-6
Area I or II or III	34-46
Total	70-83 sem. hrs.

Area I (Foods and Nutrition): Home Economics 1120, 2120, 2251, 2800, 2850, 3120, 3140, 3150, 3307, 3925, 4140; Management 1420; Marketing 3500; Botany 2340; 3-4 semester hours in chemistry; 4-3 semester hours in mathematics or science. Total, 45 sem. hrs.

Area II (Clothing and Merchandising): Home Economics 2231, 2232, 2245, 2251, 3234, 3235, 3237, 3370, 3925, 4238, 4280; Marketing 3480. Total, 34 sem. hrs.

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

Family Service Option:

Educational Guidance 4900	3 sem. hrs.
Home Economics 1120, 1150, 2270, 2800, 2850, 3300, 3307, 3370, 3820, 3853, 4300, 4840, 4845, 4846	38
Psychology 2310, 3520, 4780	8
Sociology 2710, 2720, 3600	9
Psychology elective	2-3
Sociology elective or Home Economics 3831	3
Total	63-64 sem. hrs.

(Major GPA based on home economics courses only.)

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

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

Home Economics 1120, 1150, 2120, 2244, 2250, 2270, 2800, 2850, 3300, 3307, 3400, 3370, 3371, 4400	39 sem. hrs.
Botany 2340; seven semester hours in mathematics and/or science	10
Economics 2801, Psychology 2310	6
U.S. history or U.S. government	3
One Group I Area of Concentration listed below	11-14
One Group II Area of Concentration listed below	5-6
Total	74-81 sem. hrs.

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

Group I Areas of Concentration: (choose one)

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

B — Clothing and Textiles:
Home Economics 2245, 3234, 3235, 3237, elective in clothing and textiles. Total, 13-14 sem. hrs.

C — Family Life Education:
Home Economics 4840, 4845, 4846, elective in child development or family life. Total, 11-12 sem. hrs.

D — Foods and Nutrition:
Home Economics 3120, 3140, 3150, electives in foods and nutrition. Total, 13 sem. hrs.

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

A — Child Development:
Courses chosen from Home Economics 3853, 4851, 4854, 4859. Total, 5-6 sem. hrs.

B — Clothing and Textiles:
Courses chosen from Home Economics 2231, 2232, 2245, 3234, 3235, 3237, 4237, 4238. Total, 5-6 sem. hrs.

C — Family Life Education:
Courses chosen from Home Economics 3820, 3853, 4840, 4845, 4846. Total, 5-6 sem. hrs.

D — Foods and Nutrition:
Courses chosen from Home Economics 2120, 3120, 3140, 3150, 3370, 4140, 4150. Total, 5-6 sem. hrs.

E — Consumer Education and Management:
Courses chosen from Home Economics 3925, 4280, 4300. Total, 5-6 sem. hrs.

F — General Home Economics:
Courses chosen from Home Economics 2251, 3750, 3920, 4280. Total, 5-6 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 ARTS EDUCATION (B.S. FOR TEACHER CERTIFICATION)

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

Industrial Arts 1013, 1412, 2052, 3400	10 sem. hrs.
One course in each of four areas to be selected from electronics, graphic arts, industrial crafts, metals, power, and woods	12
Concentrations. The student will choose two subject areas for additional work of no less than 9 semester hours each from electronics, graphics, graphic arts, metals, power, and woods	18
Chemistry and/or Physics	7-8
Mathematics 1310	2
Industrial Arts or Industrial Technology electives	12
Total	61-62 sem. hrs.

(Major GPA based on industrial arts courses only.)

Minor: (for teacher certification)

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

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

INDUSTRIAL TECHNOLOGY (B.S.)

Major:

Chemistry 1300 or 1310; 1315; 1510, 1515	8 sem. hrs.
Economics 2801, 2802, 3890	9
Health Education 3350	2
Industrial Arts 1043, 1163, 3063	9
Industrial Technology 1013, 3003, 3012, 3043, 4002, 4043	16
Management 3010, 3830, 4340	9
Management 2300 or Mathematics 2310	3
Mathematics 1300, 1340, 2340	9
Physics 1350, 1360	8
Psychology 3530	2
Option I or II or III or IV	15
Total	92 sem. hrs.

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

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

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

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

(Major GPA based on specified courses only.)

JOURNALISM

Minor: (for teacher certification)

Journalism 2100, 2101, 2102, 3100, 3101, 4800	18 sem. hrs.

JUNIOR HIGH SCHOOL EDUCATION (B.S. ED)

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

Required Courses

Elementary Education 1230, 2320	5 sem. hrs.
Junior High School Education 3110; 3130 or 3140; 4280	9
Educational Foundation 4450	3
English 1001, 1002	6
Health Education 1200	2
Psychology 2310, 3520	5
Speech-Communication 1310	3
Student Teaching 4308	8
Humanities (see General Education Requirements)	10
Mathematics-Science (see General Education Requirements)	10
Social studies electives	4
Physical education	1
U.S. history or U.S. government	3
Teaching Field I	32
Teaching Field II	24
Electives needed to total 120 semester hours	

Subject Fields of Specialization

ART

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

BIOLOGICAL SCIENCES

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

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

ENGLISH

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

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

FOREIGN LANGUAGES

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

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

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

GEOGRAPHY

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

HISTORY

Field II: History 1510, 1520, 2010, 2020; 2 or 3 semester hours in U.S. history; 2 or 3 semester hours in world or European history; electives in history, upper division recommended. Total, 24 sem. hrs.

HOME ECONOMICS

Field II: Home Economics 1120, 1150, 2244, 2800, 2850, 3234, 3235, 3300; elective in home economics. Total, 24 sem. hrs.

INDUSTRIAL ARTS

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

LIBRARY SCIENCE

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

MATHEMATICS

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

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

PHYSICAL EDUCATION

Field II: Physical Education 1530 or 2410; 2440, 3400, 4320; two semester hours from: Physical Education 2104, 2370, 2380; two semester hours from: Physical Education 2101, 2102, 2103, 2320; 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 or Physical Education 3200; two or three semester hours in physical education service courses (include an aquatics course or swimming proficiency). Total 24 sem. hrs.

PHYSICAL SCIENCE

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

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

SOCIAL STUDIES

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

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

SPECIAL EDUCATION — EMH*

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

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

SPECIAL EDUCATION — LEARNING DISABILITIES*

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

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

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, 4660, 4870, 4880; Student Teaching 4301, 4304; minimum of nine semester hours from: Special Education 3300, 3350, 3400, 4741, 4742, 4743, 4960, 4980, Psychology 3550, Speech Pathology and Audiology 4800. Total, 24 sem. hrs.

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*Satisfies requirements for a letter of approval to teach EMH or LD in grades 6-12. Thirty-two semester hours in special education needed for EMH or LD (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 3170, 3200, 3230; one of the following: Theatre Arts 2257, 3431, 3445; three semester hours from Speech-Communication, Speech Pathology and Audiology, Theatre Arts, and/or Journalism. Total, 24 sem. hrs.

LIBRARY SCIENCE

Minor: (for teacher certification)

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

MANAGEMENT (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3450, 3460, 3700, 3810, 3830, 4360	24
Management either (3800, 3820, 4340, 4350) OR (3470, 4370, 4380, 4450)	12
Marketing 3470	3
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
Total	70 sem. hrs.

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

MARKETING (B.S. BUS.)

Major:

Accountancy 2010, 2020	8 sem. hrs.
Management 2300, 3010, 3460, 3700, 3810, 4360	18
Marketing 3470, 3480, 3490, 3500, 3720, 4860, 4870	21
Economics 2801, 2802	6
Mathematics 1290, 2110, 2120	11
Psychology 2310	3
Sociology 2710	3
Total	70 sem. hrs.

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

MATHEMATICS (B.A.)

Major:

Mathematics 2310, 2351, 2352, 2353, 3531, 3532	22 sem. hrs.
Electives chosen from any mathematics course numbered 2550 or above including at least 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.

*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	10
Social Studies electives	10
Total	31 sem. hrs.

Special Requirements:

Mathematics elective	3 sem. hrs.
Life Science 1000	3
Zoology 1010, 2000, 3600	10
Botany 3250	3
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435	16
Total	35 sem. hrs.
Electives	24 sem. hrs.
Professional training in an affiliated school of medical technology	30 sem. hrs.
Total	120 sem. hrs.

MUSIC (B.MUS.)

Major: (Music)

History-Literature Option:

Music 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204, 2541, 2543, 2560, 2580, 3547, 3571, 3572, 4872	32 sem. hrs.
Electives in MTH&L	15
Primary instrument or voice	16
Electives in music	2
Foreign language	8
Total	73 sem. hrs.

Performance Option:

Music 1103, 1541, 1542, 1543, 1544, 2541, 2543, 2560, 2580, 3571, 3572	23 sem. hrs.
Electives in MTH&L	7
Choose one of the following areas	47-56
Total	77-83 sem. hrs.

1. String, Wind, or Percussion Instrument.
   Two semesters of Class Piano or completion of Music 2204; Music 2360, 3360, 3547, 4872; one semester hour elective in music; six sem. hrs. in instrumental ensemble; including at least one sem. hr. of 0600 and four sem. hrs. of 0100, 0110, and 0120. 30 sem. hrs. in primary instrument. Total, 47 sem. hrs.
2. Keyboard.
   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, 4910, 4920; 30 sem. hrs. in 0060; 1 sem. hr. in music electives. Total, 40 sem. hrs.
   b. Organ Primary: Music 4900; 30 sem. hrs. in 0061; 8 sem. hrs. in music electives. Total, 40 sem. hrs.
3. Vocal.
   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.

Theory-Composition Option:

Music 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204, 2541, 2543, 2560, 2580, 3547, 3571, 3572, 4541, 4542, 4872	36 sem. hrs.
Electives in MTH&L	7
Primary instrument or voice	10
Music 0070 and approved electives in music	18
Electives in ensemble	6
Total	77 sem. hrs.

(Major GPA based on music courses only.)

*This fulfills the humanities requirement

MUSIC EDUCATION (B.MUS. FOR TEACHER CERTIFICATION)

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

Music 1103, 1541, 1542, 1543, 1544, 2440, 2541, 2543, 2560, 2580, 3571, 3572	24 sem. hrs.
Electives in MTH&L	5
Choose one of the following options	32-37
Total	61-66 sem. hrs.

1. Instrumental Option.
   Music 1136 (or 1137 and 2136), 1301, 2360, 3360, 3400; 3547 or 4840 or 4850. Choose one of three principals listed below. (32-35 sem. hrs.)
   a. 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.
   b. 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.
   c. Composition Principal. Four semesters of class piano or completion of Music 2204; three courses from 1302, 1303, 1304, 1305, 1306; 10 sem. hrs. of Music 0070; 4 sem. hrs. in instrumental ensemble. Total, 21 sem. hrs.
2. Vocal Option.
   Music 2155, 3155, 3440; one course from 3547, 4750, 4840, 4850; 4 sem. hrs. in vocal ensemble. Choose one of three principals listed below. (35-36 sem. hrs.)
   a. Vocal Principal. Music 1301, 1302, 1305. Four semesters of class piano or completion of Music 2204, 2141, 2142, 3439, 3120 (taken twice); 9 sem. hrs. in applied voice. Total, 25 sem. hrs.
   b. Keyboard Principal. Music 1136 or 1137, 1301, 1302, 1305, 2136 (taken twice), 2205, 2206, 3221, 3439; 10 sem. hrs. in applied voice. Total, 24-25 sem. hrs.
   c. Composition Principal. Music 1136 or 1137. Four semester hours of Class Piano or completion of Music 2204; 2136 (taken twice); 2141, 2142, 3439; 10 sem. hrs. in Music 0070; two courses from 1301, 1302, 1303, 1304, 1305. Total, 24-25 sem. hrs.
3. General Music Option.
   Music 3439 or 3400; 3440, 3481; (2155 and 3155) or (2360 and 3360); 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, 3360, 3400; 3 sem. hrs. in applied instrumental music distributed over three semesters. Total, 13 sem. hrs.
Participation for at least four semesters in a university instrumental organization is required.

Total	31 sem. hrs.

PHILOSOPHY (B.A.)

Major:

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

(Major GPA based on philosophy courses only.)

PHYSICAL EDUCATION (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
Life Science 1000; Zoology 3000	6
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	62 sem. hrs.

Fields of Specialization

Dance: Physical Education 3230, 3270, 3200, 3220, 3250, 3620, 3960, 4741, 4742, 4743.

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, 4742, 4743.

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
Home Economics 3190	2
Zoology 2000 or 2100; 3000	6-7
Psychology 2310, Educational Psychology 3320	8
Electives from Physical Education 3000-level coaching courses, Physical Education 3700, 4741, 4742, 4743, Physics 1150, 1160, Chemistry 1300, 1315, Botany 3250, 3350, Zoology 3200	6
Total	40-42 sem. hrs

*2320, 2220 required of all physical education majors.
**2230 required of all women physical education majors.

PHYSICAL EDUCATION (B.S. FOR TEACHER CERTIFICATION)

Major: (K-12 Standard Special Certificate)

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

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
Life Science 1000; Zoology 3000	6
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	65 sem. hrs.

Fields of Specialization

Dance: 12 semester hours from Physical Education 3230, 3270, 3200, 3220, 3250, 3620, 3960, 4741, 4742, 4743.

Elementary: Physical Education 3620, 3630, 3640; 3 sem. hrs. from Physical Education 3610, 4741, 4742, 4743, 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, 4742, 4743. 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, 4742, 4743. 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)

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

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.

Life Science 1000; Zoology 3000	6
Field of Specialization	12
Academic minor	20
Total	65 sem. hrs.

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

Fields of Specialization

Dance: 12 sem. hrs. from: Physical Education 3230, 3270, 3200, 3220, 3250, 3620, 3960, 4741, 4742, 4743.

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, 4742, 4743. 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, 4742, 4743. 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, 3580	6
Total	27 sem. hrs.

PHYSICS (B.S.)

Major:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352, 2353, 3501, 3502	17
Physics (1350, 1360)*	8
Physics 2370, 2390, 2400, 3410, 3420, 4000, 4010, 4840, 4850	25
Electives chosen from Physics 3150, 4410, 4470, 4750, 4860, 4870	6-8
Total	64-66 sem. hrs.

(Major GPA based on physics courses only.)

PHYSICS (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

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

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

Minor: (for teacher certification)

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
Mathematics 2351, 2352	6
Physical Science 3400***	3
Physics (1350, 1360)*	8
Physics 2370, 4830	6
Electives chosen from Physics 2390, 2400, 3150, 3410, 3420, 4470, 4750, 4850	3-4
Total	34-35 sem. hrs.

POLITICAL SCIENCE (B.A.)

Major:

Political Science 1003, 1104, 2003, 2603, 4952	15 sem. hrs.
One of Political Science 2203, 3203, 3223, 4813, 4821, 4822, 4823	3
One of Political Science 3303, 3313, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4753, 4793, 4831, 4832, 4833, 4843	3
One of Political Science 3503, 3513, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in political science	9
Total	39-40 sem. hrs.

(Major GPA based on political science courses only.)

*or (1150, 1360) or (1150, 1160) with permission of the chairman of the department.
**Students who wish to teach chemistry 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 in Life Science 3400.

POLITICAL SCIENCE (B.A. FOR TEACHER CERTIFICATION)

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

Major: (Standard High School Certificate)

Political Science 1003, 1104, 2003, 2603, 4952	15 sem. hrs.
One of Political Science 2203, 3203, 3223, 4813	3
One of Political Science 3303, 3313, 3323, 3333, 3343, 3353, 3363, 4803	3
One of Political Science 3413, 3643, 3713, 3723, 3733, 3743, 3753, 4753, 4793, 4843	3
One of Political Science 3503, 3513, 4774	3-4
One of Political Science 4903, 4913, 4933	3
Electives in political science	9
Social Science 3400	3
Total	42-43 sem. hrs.

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

PRE-MEDICINE INFORMATION

Since many medical schools admit few, if any, students without a bachelor's degree, most students desiring the M.D. degree complete a bachelor's degree before entering medical school. Programs leading to the B.A. or the B.S. degree with a variety of majors are suitable for such students. When registering, such students should indicate their choice of degree and major. Pre-medicine should not be listed as the student's major unless the student is of sophomore or higher class standing and has been admitted to the cooperative pre-medicine degree program described in the next section. All students interested in a career in medicine should consult with the Chairman, 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 2340 is highly recommended	3

PRE-MEDICINE (B.S.)

A cooperative pre-medicine program leading to the B.S. degree, after one year in medical school, is available to a limited number of students with high scholastic achievement records. Students who complete a year of college work with superior grades and who are interested in reducing the period of pre-medical study by a year should consult with the Chairman, Health Professions Studies Committee, for the detailed requirements of this program.

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

PSYCHOLOGY (B.A.)

Major:

Psychology 2310, 2340, 2610; 3810 or 3820	14 sem. hrs.
Electives in psychology	18
Total	32 sem. hrs.

(Major GPA based on psychology courses only.)

PSYCHOLOGY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Psychology 2310, 2340, 3601	9 sem. hrs.
Psychology 3800; or 2610 and either 3810 or 3820	4 or 8
Electives in psychology	19 or 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, 2340	6 sem. hrs.
Psychology 3400 or Social Science 3400	3
Electives in psychology	14
Total	23 sem. hrs.

RECREATION (B.S.)

Major:

Art 1400 or 1650; 3340	6 sem. hrs.
Elementary Education 2320	3
Geology 1400	4
Industrial Arts 1293	3
Life Science 1000, 3010	6
Electives from economics, management, marketing, accounting	6
Music 1423	2
P.E. service courses, to include a minimum of one aquatic and one rhythmical activity	6
Political Science 1104 or 2603	4-3
Psychology 2310; Sociology 2710; and 6 sem. hrs. of electives from sociology or psychology	12
Theatre Arts 3431	3
Recreation 1320, 1780, 2250, 2280, 3550, 3830, 4410, 4790, 4840, 4850	29
Electives from: Recreation 3510, 3560, 4760, 4800, 4741, 4742, 4743, 4744, 4745, 4746, H.Ed. 1320 or 3000 or 3300	9
Total	92-93 sem. hrs.

(Major GPA based on recreation courses only.)

SAFETY AND DRIVER EDUCATION

Minor: (for teacher certification)

Health Education 3300, 3310, 3320, 3340, 4900	13 sem. hrs.
Choose from the following: Health Education 2270, 3000, 3200, 3350; P.E. 3130; Political Science 2603, 3643; Psychology 3550, 4870	7
Total	20 sem. hrs.

SOCIAL SCIENCE (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Economics 2801, 2802, elective in economics	9 sem. hrs.
History 2010, 2020, elective in U.S. history	9
History 1510, 1520; elective in European history	9
Political Science 1104, two elective courses in political science	9-10
Social Science 3400	3
Sociology 2710, two elective courses in sociology	9
Upper division courses from economics, political science, sociology-anthropology (may be in one, two, or three fields)	9
Total	57-58 sem. hrs.

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

Minor: (for teacher certification)

Two of the following options	18-19 sem. hrs.
a. Economics 2801, 2802, plus an elective course in economics. Total, sem. hrs.	9
b. Political Science 1104, plus two elective courses in political science. Total, sem. hrs.	9-10
c. Sociology 2710, plus two elective courses in sociology. Total, sem. hrs.	9
Electives from economics, geography, history, political science, sociology-anthropology (may be in one or two fields)	6
Social Science 3400*	3
Total	27-28 sem. hrs.

SOCIOLOGY (B.A.)

Major:

Sociology 2710, 3650, 4520, 4622, 4900; 3610 or Psychology 2610	18-19 sem. hrs.
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, 3600, 3761, 4730, 4740, 4800. Total, 18 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.

III – Community Analysis: Sociology 3622, 3791, 3801, 3810, 4721; Anthropology 4542. Total, 18 sem. hrs.

IV – Criminal Justice: Sociology 2720, 3700, 3761, 4750, 4770; Political Science 3503. Total, 18 sem. hrs.

V – Anthropology: Anthropology 2742, 3251, 3672; nine semester hours of electives in anthropology. Total, 18 sem. hrs.

(Major GPA based on sociology courses only.)

SOCIOLOGY (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Sociology 2710, 3610, 4251, 4520, 4622, 4900	18 sem. hrs.
Social Science 3400	3
Electives in Sociology	18
Anthropology 2730	3
Choose one of the options listed below	16
Total	58 sem. hrs.

I – 8 semester hrs. in U.S. History and 8 semester hrs. in World History. Total, 16 sem. hrs.

II – 8 semester hrs. in U.S. History and 8 semester hrs. in any history specialization. Total, 16 sem. hrs.

III – 8 semester hrs. in each of two of the following: geography, political science, economics, anthropology. Total, 16 sem. hrs.

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

SPEECH-COMMUNICATION (B.A.)

Major:

Courses chosen from the following: Speech-Communication 1400, 2300, 2320, 2340, 2520, 2530, 2540, 3170, 3200, 3230, 3300, 3510, 3520, 3530, 3540, 3620, 3830, 4470, 4750, 4760, 4800, 4860, 4900, Theatre Arts 1132, 1133, a maximum of four semester hours in a combination of Speech-Communication 1102 and 3020	42 sem. hrs.

(Major GPA based on Theatre Arts 1132, 1133, and speech-communication courses only.)

SPEECH-COMMUNICATION (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Speech-Communication 2300, 2320, 2340, 2520, 3400, 4900	18 sem. hrs.
Electives in Speech-Communication other than 1310	9
Two of the following options	24
a. Radio-TV-Film: Four courses from: Speech-Communication 2540, 3520, 3530, 3540, 4750.	
b. Public Address: Speech-Communication 3170, 3200, 3230, 4800.	
c. Interpersonal Communication: Four courses from: Speech-Communication 3300, 3830, 4470, 4760, 4860.	
*d. Theatre Arts 1132, 1133, 2257, 3445.	
Total	51 sem. hrs.

*Option "d" not available to Speech-Communication majors with Theatre Arts minor.

With the consent of the chairman of the department, Speech-Communication 4000 may be substituted for any of the above courses except 3400.
(Major GPA based on theatre arts and speech-communication courses only.)

Minor: (for teacher certification)

Speech-Communication 2300, 2320, 2340, 2520, 3400, 4900	18 sem. hrs.
Speech-Communication 4750 or 4800 or 4830	3
Total	21 sem. hrs.

SPEECH PATHOLOGY AND AUDIOLOGY (B.S.)

Major:

Physics 1210	3 sem. hrs.
Psychology 2310, 3620, 4750, 4780	12
Speech Pathology and Audiology 1100, 2110, 2140, 2210, 2800, 2830, 3250, 3300, 3410, 3500, 3600	30
Speech Pathology and Audiology 4700	2
Life Science 1000 or a course in bio-chemistry	3
Zoology 3000	3
Total	53 sem. hrs.

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

Undergraduate Recommended Electives:
Educational Psychology 4770, English 2901, 3901, 4902; Home Economics 2850 Psychology 3600, 4790; Speech-Communication 3830, 4860; Zoology 2000

Note: This program does not meet the requirements for American Speech and Hearing Association certification. To prepare for that certificate students must take this program with the M.S. in Speech Pathology and Audiology; see the Graduate Bulletin.

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	30
Speech Pathology and Audiology 4700	2
Life Science 1000 or a course in bio-chemistry	3
Zoology 3000	3
Total	53 sem. hrs.

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

Note: This program does not meet the requirements for the Special Certificate — Speech and Language Clinician (for the Illinois schools) nor the American Speech and Hearing Association 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.

THEATRE ARTS (B.A.)

Major:

Theatre Arts 1101, 1102, 1132, 1133, 2240, 2244, 2257, 3333, 3357, 3358, 3445, 3751, 3752	35 sem. hrs.
Electives in Theatre Arts	6
Total	41 sem. hrs.

(Major GPA based on theatre arts courses only.)

THEATRE ARTS (B.A. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Theatre Arts 1101, 1102, 1132, 1133, 2244, 2257, 3333, 3357, 3358, 3445	26 sem. hrs.
Speech-Communication 2320, 2340, 3400	9
One of the options listed below	15
Option 1: Theatre Arts 2240, 3751, 3752; electives in theatre arts. Total, 15 sem. hrs.	
Option 2: Theatre Arts 3751 or 3752; twelve semester hours in English and/or American literature. Total, 15 sem. hrs.	
Total	50 sem. hrs.

(Major GPA based on theatre arts and speech-communication courses only.)

Minor: (for teacher certification)

Theatre Arts 1132, 1133, 2244, 2257, 3445	15 sem. hrs.
Speech-Communication 3400 or English 3400	3
Total	18 sem. hrs.*

*For State Certification purposes this is a 27 semester hour minor including 9 semester hours of the 41 semester hours of required General Education.

ZOOLOGY (B.S.)

Major:

Botany 1010	4 sem. hrs.
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Life Science 1000, 3010	6
Zoology 1010, 2100 or 2000; 2200, 3100, 3200; 3700 or 3600 or 4760; 4540	24-26
Electives in mathematics and in the physical sciences	12
Electives in zoology	8-10
Total	64 sem. hrs.

(Major GPA based on Life Science 1000, 3010 and zoology courses only.)

ZOOLOGY (B.S. FOR TEACHER CERTIFICATION)

Major: (Standard High School Certificate)

Botany 1010, 1022, 2290, 2300	12 sem. hrs.
Chemistry 1310 or 1300, 1315, 1410, 1415	8
Life Science 1000, 3010, 3400	9
Zoology 1010, 2100, 2200, 3100, 3200, 3300, 3700	26
Electives in the physical sciences	7
Electives in botany	3
Total	65 sem. hrs.

(Major GPA based on Life Science 1000, 3010, 3400, and zoology courses only.)

VIII. GRADUATE DEGREE PROGRAMS

GRADUATE STUDY

ADMISSION AND READMISSION

Admission, on a regular status or conditional status, to the graduate school for the purpose of obtaining a degree is granted upon evidence of a standard baccalaureate degree from an accredited college or university. To be admitted, the student must:

Regular Status

1. Take the Graduate Record Examination (GRE) or the Admission Test for Graduate Study in Business (ATGSB) or the Miller Analogies Test (MAT). Information concerning the specific tests will be sent with the application blank. Any of the examinations may be scheduled through the University Testing Service or the Graduate School;
2. have a minimum undergraduate cumulative GPA of 2.50 from the school conferring the bachelor's degree; or
3. lacking a minimum 2.50 GPA, demonstrated ability as evidenced by earning a minimum score on the GRE (1000) or the ATGSB (450) or the MAT (50).

Conditional Status

Any student who does not meet the above requirements for admission may:

1. be admitted *CONDITIONALLY* by the department in which he plans to do graduate work; and
2. upon departmental recommendation, based on satisfactory performance (earn 12 semester hours of graduate credit with at least a 3.25 GPA) be admitted to a degree program. The GRE or ATGSB or MAT must also be taken.

Non-Degree

A student holding a bachelor's degree may be admitted to take graduate courses on a non-degree status. However, should such a student — at a later date — apply for degree status, the same admission requirements, regular or conditional, as outlined above, must be met. Graduate work completed prior to admission to a degree program will be evaluated with no assurance that any credit earned will be applied toward the degree. Admission to take graduate courses is not to be interpreted as admission to the Graduate School.

An application, together with transcripts certifying the bachelor's degree and any

subsequent work in other institutions, must be filed at least ten calendar days before the first enrollment for graduate courses. Students who have attended Eastern Illinois University previously must file an application for readmission at least ten calendar days prior to the official enrollment date for the semester in which they wish to enroll. Application blanks may be secured from the Records Office.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses.

Admission of Foreign Students

In addition to the regular application materials, overseas students are required to take the Test of English as a Foreign Language (TOEFL) Examination; the results of the examination must accompany the application blank.

GRADUATE STUDY IN THE SENIOR YEAR

During the final semester of residence in undergraduate work, or the penultimate semester of residence (if the final semester is to be spent in student teaching or internship), a senior may take graduate courses (including those numbered 5000 and above) with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. The student must complete the proper application forms in the graduate school office prior to his enrolling in the graduate courses.

Military scholarships are valid for graduate study, and any unused portion of a Teacher Education Scholarship may be applied to graduate study.

GRADUATE ASSISTANTSHIPS

Graduate assistantships are available in departments and certain administrative offices. Appointments are for the academic year or summer session. To be eligible the applicant must have earned an overall 2.50 undergraduate grade point average and been admitted to take graduate courses.

The enrollment fee and out-of-state fees, if applicable, are waived for holders of assistantships.

Applications for the assistantships should be submitted by 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 SCIENCE IN EDUCATION DEGREE

Aim. It is the purpose of this program to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in the public schools.

Fields.

Business Education
Educational Administration and Supervision
Elementary Education
Guidance and Counseling
Industrial Arts Education
Instructional Media
Physical Science

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

Aim. It is the purpose of these programs to provide intensive study designed to develop advanced scholarship in a particular discipline.

Fields. The following majors have been authorized for the Master of Arts and Master of Science Degrees:

Master of Arts

Art
Art Education
Economics
English
English Education
History
History Education
Mathematics
Mathematics Education
Music
Music Education
Political Science
Psychology
Sociology
Speech-Communication
Speech-Communication Education

Master of Science

Botany
Botany Education
Chemistry
Home Economics
Home Economics Education
Physical Education
Physical Education, for Education
Speech Pathology and Audiology
Zoology
Zoology Education

MASTER OF SCIENCE IN LIBRARY SCIENCE

MASTER OF BUSINESS ADMINISTRATION

Aim. The purpose of this program is to develop professional managers and executives to serve the needs of business and government, to prepare graduates for teaching in junior colleges, and to furnish basic graduate training for those desirous of continuing their graduate work.

SPECIALIST DEGREES*

*Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

SPECIALIST IN EDUCATION DEGREE

Aim. It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel.

Fields. The Specialist in Education degree is offered in the fields of educational administration, guidance and counseling, and instructional media.

GRADUATE DEGREE PROGRAM REQUIREMENTS

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

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 1310	3
Chemistry 1310 or 1300; 1315, 1410, 1415, 2340, 2430, 2435, 2440	19
Physics (1150, 1160) OR (1350, 1360)	8
Mathematics elective	3
Life Science 1000	3
Zoology 1010, 2100	8
Electives	10
Total	60 sem. hrs.

PRE-ENGINEERING

This two-year program is administered by the Pre-Engineering Studies Committee. Students planning to enroll in pre-engineering are advised to include the following in their high school programs:

Mathematics—four or more units, including trigonometry

Science—three or more units, including chemistry and physics

Students with deficient high school background should expect their graduation with an engineering degree to be delayed.

There are two pre-engineering options, general (appropriate for all except chemical engineering) and chemical. Students interested in the chemical engineering option should consult with the chairman of the Chemistry Department. The minimum general pre-engineering requirements are as follows:

Chemistry 1310, 1315, 1510, 1515	8 sem. hrs.
English 1001, 1002	6
Industrial Arts 1043	3

*Mathematics 1340, 2351, 2352, 2353, 3501	17
Physics 1350, 1360, 2370, 2390, 2400	17
Humanities and Social Studies approved by advisor	12
Total	63 sem. hrs.

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

PRE-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, 2340, 2430, 2435	16
Physics (1150, 1160) or (1350, 1360)	8
Life Science 1000	3
Botany 1010	4
Zoology 1010	4
Electives, approved by the advisor	19
Total	60 sem. hrs.

LATIN AMERICAN STUDIES

There is no formal curriculum for Latin American Studies. Students who seek knowledge of Latin American affairs, culture, and language are invited to consult with the Latin American Studies advisor for assistance in selecting courses suited to their individual needs. For further information inquire in the College of Arts and Sciences.

X. ACADEMIC ORGANIZATION AND COURSE DESCRIPTIONS

Instruction at Eastern Illinois University is administered by the following organizations:

COLLEGE OF ARTS AND SCIENCES	L. A. Ringenberg, Dean
Department of Botany	W. W. Scott
Department of Chemistry	S. R. Steele
Department of Economics	Ahmad Murad
Department of English	J. R. Quivey
Department of Foreign Languages	M. M. Miess
Department of Geography and Geology	Walter N. Duffett
Department of History	Robert E. Hennings
Department of Library Science	Frances Pollard
Department of Mathematics	A. J. DiPietro
Department of Philosophy	Frank S. Taylor
Department of Physics	W. A. Butler
Department of Political Science	J. T. Connelly
Department of Psychology	Clayton Ladd
Department of Sociology and Anthropology	V. Stoltzfus
Department of Speech-Communication	D. B. Morlan
Department of Speech Pathology and Audiology	W. L. Thurman
Department of Zoology	G. T. Riegel
Division of Life Sciences	L. Durham, Director
Division of Social Sciences	R. A. Plath, Director
SCHOOL OF EDUCATION	H. J. Merigis, Dean
Department of Educational Administration and Supervision	R. V. Shuff
Department of Educational Psychology and Guidance	D. L. Moler
Department of Elementary and Junior High School Education	L. M. Grado
Department of Instructional Media	G. W. Scholes
Department of Secondary Education and Foundations	H. R. Larson
SCHOOL OF BUSINESS	Thomas O. Jones, Dean
Department of Accountancy	W. E. Ballsrud
Department of Business Education and Administrative Office Management	T. L. Elliott
Department of Management	W. E. Green
Department of Marketing	C. L. Fagan

SCHOOL OF FINE ARTS — Vaughn Jaenike, Dean

Department of Art	John W. Linn
Department of Music	Rhoderick Key
Department of Theatre Arts	E. G. Gabbard

SCHOOL OF HEALTH, PHYSICAL EDUCATION AND RECREATION

W. S. Lowell, Dean

Department of Health Education	J. J. Richardson
Department of Physical Education	W. F. Buckellew
Department of Recreation	E. L. Bryden

SCHOOL OF HOME ECONOMICS — M. R. Swope, Dean

Department of Home Economics Education	J. S. Crouse

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

W. D. Coleman, Dean

COURSE DESCRIPTIONS

In the course description section which follows, courses are shown under the departments which teach them, with the departments listed in alphabetical order.

Generally, courses numbered 1000-1999 are freshman courses; 2000-2999, sophomore courses; 3000-3999, junior courses; 4000-4999, senior courses; and 5000-6999, graduate courses. However, if prerequisites are met students may enroll according to the following schedule.

CLASS	COURSES NUMBERED				
Freshman	1000	2000	a	a	
Sophomore	1000	2000	3000	a	
Junior	1000	2000	3000	4000	
Senior	1000	2000	3000	4000	5000-5499b
Graduate				4750-4999	5000-6999

a. Courses numbered 3000-4999 in foreign languages and chemistry may be taken by underclassmen who have prerequisites and permission of the chairman of the department.

b. With 3.0 GPA and permission of instructor and Dean of 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.

Prerequisites for courses are printed immediately following the course description. A student may not enroll in a course which is prerequisite for a course for which he has credit nor may he enroll in a course which substantially duplicates, at a lower level, a course or courses which he has already successfully completed. Should a student violate this prescription, he may not receive credit for the course toward graduation.

Unless indicated as below, courses are offered every term. Offering times indicated are:

Su — Summer Term 1975
F — Fall Semester 1975
S — Spring Semester 1976

ACCOUNTANCY

UNDERGRADUATE COURSES

2010. Financial Accounting. (4-0-4) An introduction to the basic concepts of financial accounting. Not open to freshmen.

2020. Management Accounting. (4-0-4) Uses of accounting data for managerial planning and control. Prerequisite: Accountancy 2010.

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.

3000. Cost Accounting. (4-0-4) The usefulness and limitations of cost accounting with emphasis upon cost control and cost analysis. Prerequisite: Accountancy 2020.

3040. Financial Accounting Theory I. (5-0-5) The fundamental nature of accounting communication embraced by a study of accounting statements, their form of presentation, and accounting terminology. Prerequisite: Accountancy 2020.

3050. Financial Accounting Theory II. (5-0-5) Financial accounting measurement including: the determination of periodic income, revenue recognition, cost allocation, flow of funds, inventory valuation, depreciation theory, liability recognition, and corporate equity measurement. Prerequisite: Accountancy 3040.

3700. Socio-economic Accounting. (2-0-2) S. Special nature of accounting for social systems and special economic units. Budgets, fund accounting characteristics, cost accounting, and the structure of social income accounts. Prerequisites: Accountancy 2020 and Economics 2801.

3800. Introduction to Operations Research. (3-0-3) Su, F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Prerequisite: Mathematics 2110 or 2120. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.

4000. Development of Accounting Thought. (2-0-2) F. An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accountancy 3050 or permission of the instructor.

4610. Federal Income Tax. (4-0-4) Tax accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and concepts. Prerequisite: Accountancy 2020.

4670. C.P.A. Problems. (3-0-3) Su, S. Accounting theory and practice on a professional level. Analysis and study of selected questions from C.P.A. examinations. Prerequisites: Accountancy 3000, 3050, and 4610.

4740. Independent Study. (Arr.-Arr.-1 to 4) Individual study programs. The student will be assigned material from literature in accounting in cooperation with the department chairman. A written formal report based upon these readings must be submitted. Prerequisites: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

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.

Prerequisite: Accountancy 2020. Offered in Accountancy and Management. A student may take the course for credit in only one of the departments.

4850. Auditing. (4-0-4) The examination and verification of financial statements for the purpose of establishing their reliability, including advanced techniques. Prerequisites: Accountancy 3000, 3050, and permission of the chairman of the department.

4900. Advanced Federal Tax. (3-0-3) S. Emphasis on partnership, corporation, fiduciary tax problems. Gift, estate, inheritance taxes. Corporate tax case research. Prerequisite: Accountancy 4610.

4950. Internship in Accounting. (Arr.-Arr.-8) Employment experience in public, industrial or governmental accounting in an approved firm. Prerequisite: Permission of the chairman of the department and acceptance of the student by a business firm.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5300. Quantitative Analysis. (3) F. Designed to provide students with skills in quantitative techniques necessary for advanced work in functional areas of business administration.

5600. Management Control. (3) F. A case approach for analyzing management control problems. Prerequisite: Accountancy 2020.

5620. Operations Research. (3) S. Principles and methods of operations research: topics in linear programming; PERT, inventory models, queuing theory, simulation, and probability theory. Prerequisite: Accountancy 5300 or Mathematics 2110.

5800. Seminar in Accounting Theory. (3) S. An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting. Prerequisite: Accountancy 2020.

5900. Business Research Methods. (2) F. Business research methodology including the meanings of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.

5950. Thesis. (3 to 6) The development of the method of attack and the execution of a formal research study in the area of accountancy. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) The study of a problem within the area of accountancy in cooperation with the assigned instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

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 is investigated through relevant readings.

ANTHROPOLOGY

UNDERGRADUATE COURSES

2730. Introduction to Cultural Anthropology. (3-0-3) A study of the cultures of the world, kinship systems, major institutions and social structure.

2742. Introduction to Physical Anthropology and Archaeology. (3-0-3) S. Investigation of man's place in nature; emphasis on principles of biological and cultural evolution as reflected by archaeological evidence.

3251. Social Structure. (3-0-3) F. A review of social systems, including kinship, political and economic systems in selected culture areas. Prerequisite: Anthropology 2730.

3602. Peoples and Cultures of South America. (3-0-3) S. The pre-Columbian background; culture and social organization of selected contemporary Latin American societies. Prerequisite: Anthropology 2730.

3611. Peoples and Cultures of Africa. (3-0-3) F. A study of the peoples and cultures of Africa, including a delineation of broad cultural areas. An in-depth description of selected societies and a cross-cultural comparison of certain institutions such as religions, political systems and family structures. Prerequisite: Anthropology 2730 or with consent of the instructor.

3672. Introduction to Prehistoric Archaeology. (3-0-3) S. Study of the history, method, theory and goals of archaeology; interpretation and analysis of prehistoric cultures. Prerequisites: Anthropology 2730, 2742.

3680. Midwest Prehistory. (3-0-3) F. A study of midwestern archaeology including both major cultures and regional variations. Their chronology and inter-relationships will be stressed. Prerequisites: Anthropology 2730, 2742.

3691. North American Indians. (3-0-3) F. A survey of the native population of North America, emphasizing the importance of cultural adaptation to environment. Prerequisite: Anthropology 2730.

4542. Theories of Culture and Social Change. (3-0-3) S. An investigation of anthropological theories and models which have contributed to an understanding of culture and social change. Prerequisite: Anthropology 2730.

ART

Note: Studio courses meet for double periods. Discussions and critiques may be incorporated into the studio hours.

The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

UNDERGRADUATE COURSES

1000. Drawing I. (0-8-4) Drawing in various media; studies from nature and the live model. Prerequisite: Major or minor in art, or Junior High School curriculum with Field II in art. Also Industrial Arts and Industrial Technology majors.

1110. Design. (0-8-4) Development of concepts of two and three dimensional form creation through studio work. Credit is not given to students who have received credit for Art 1400. Prerequisite: Major or minor in art. For Industrial Arts and Industrial Technology majors, and Junior High School curricula with Field II in Art.

1400. Introduction to Art. (1-4-3) Study of the fundamentals of art through studio problems in creative design. Prerequisite: Enrollment in elementary and junior high school education or special education or recreation. Credit is not given to those students who have credit for Art 1110 or 1650.

1650. Theory and Fundamentals of Art. (2-4-3) Study of the basic aspects of the creation of form in the visual arts; studio experiences included. May be used as partial fulfillment of humanities requirement. Not open to students whose major or minor is in art or who have credit for Art 3601 or 1400.

2000. Drawing II. (0-6-3) Varied approaches to drawing the human figure, anatomical study and analysis of muscular and skeletal systems of the human body at rest and in movement. Prerequisite: Art 1000.

2050. Painting I. (0-6-3) Introduction to painting as a medium of expression; variety of approaches and media explored. Prerequisite: Art 1000 and 1110, or Art 1400 and Junior High School curriculum with Field II in art.

2100. Sculpture I. (0-6-3) More specific work in three-dimensional organization of form; carving, constructing, assembling and welding are techniques to be explored. Prerequisite: Art 1110 or 3190.

2250. Ceramics I. (0-6-3) Introduction to various hand building techniques, decorative methods, firing processes and use of the potter's wheel. Prerequisites: Art 1000 and 1110 for art majors and minors only; or Art 1400 for Junior High School curriculum with Field II in art.

2410. Art Education for Elementary Schools. (1-4-3) The basic philosophy of art education for all ages. Study of developmental stages through grade six with appropriate exploratory studio creative projects. For art majors and minors only, or Junior High School curriculum with Field II in art. Not open to students who have credit in Art 2440.

2440. Art for Teachers in the Elementary Grades. (0-4-2) A methods course in the philosophy of teaching art to children including the developmental stages of creative activity and appropriate media for each. Studio experiences. Prerequisites: Art 1400 and enrollment in elementary and junior high school education or special education. Not open to students who have credit in Art 2410.

2560. Printmaking I. (0-6-3) Survey and exploration of four methods of printmaking. Prerequisite: Art 1000.

2601. History of Art I. (4-0-4) F. Survey of the visual arts, prehistoric through the Gothic period. Prerequisite: For art majors and minors only.

2602. History of Art II. (4-0-4) S. Survey of the visual arts, early Renaissance to the present. Prerequisite: Art 2601. Art majors and minors only.

2700. Introduction to Jewelry and Silversmithing. (0-6-3) Fundamental techniques in the constructive and decorative processes of jewelry creation with various metals. Prerequisites: Art 1000 and 1110; or Art 1400 and Junior High School curriculum with Field II in art.

2800. Introduction to Weaving. (0-6-3) Procedures involved in dressing the loom; development of various weaves using color, texture, materials. Prerequisite: Art 1110 or 1400.

2900. Lettering. (0-6-3) F. Study of basic style letters with the development of skills in lettering with pen, pencil, brush techniques.

3000. Drawing III. (0-6-3) Continuing study of drawing designed to develop individual sensitivity to graphic expression. Prerequisite: Art 2000.

3051. Painting II. (0-6-3) Advancement of painting in progressive stages. Prerequisite: Art 2050.

3052. Painting III. (0-6-3) Continuation of Art 3051. Prerequisite: Art 3051.

3080. Watercolor. (0-6-3) Su, S. A painting course in transparent media. Prerequisite: Art 2050, or Junior High School curriculum with Field II in art.

3090. Survey of Two-Dimensional Art. (0-6-3) Su, S. Studio experiences in drawing, painting, and printmaking. Prerequisites: Art 1400 or Art 1650. Not open to art majors and minors.

3111. Sculpture II. (0-6-3) Advanced work in three-dimensional organization of form. Prerequisite: Art 2100.

3112. Sculpture III. (0-6-3) Individual concentration toward more competent expression in three dimensions. Prerequisite: Art 3111.

3190. Survey of Three-Dimensional Art. (0-6-3) Su, F. A study in three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry, or crafts. Credit is not given to students who have received credit for Art 1110. Prerequisite: Art 1400 or 1650. Not open to art majors and minors.

3251. Ceramics II. (0-6-3) Projects in hand building or throwing; study of glaze materials and glaze calculation. Prerequisite: Art 2250.

3252. Ceramics III. (0-6-3) Continuation of Art 3251. Prerequisite: Art 3251.

3300. Afro-American Art. (3-0-3) Su, F. Contribution of the Black people to the art of the western world.

3340. General Crafts. (0-6-3) General course in crafts with emphasis on problems in varied media; mosaic, wood, glass, block printing, batik, macrame. Prerequisite: Art 1110 or 1400 or 1650.

3410. Art Education for Secondary Schools. (1-4-3) Philosophy and special problems related to teaching art in the junior and senior high school with appropriate studio experiences including Saturday art classes for children; preparation for student teaching. Required for and open only to art majors and minors in teacher training curriculum. Prerequisite: Art 2410; or 2440 and Junior High School curriculum with Field II in art.

3570. Printmaking II. (0-6-3) Intensive exploration of methods of printmaking with emphasis on new approaches to personal expression. Prerequisite: Art 2560.

3601. Understanding Art. (3-0-3) An introduction to the nature, creation, perception, understanding and evaluation of the visual arts. Not open to students whose major is in art. The course is recommended as partial fulfillment of the humanities requirement. Credit not given to students who have credit in Art 1650.

3602. Art in Past Cultures. (3-0-3) Comparative study of subject, form and content in art of past cultures as it relates to purpose and style. Prerequisite: Art 1650 or 3601. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.

3603. Twentieth Century Art Forms. (3-0-3) Origins and developments in Twentieth Century art. Prerequisite: Art 1650 or 3601. Not open to students whose major is in art. This course is recommended as partial fulfillment of the humanities requirement.

3630. Classical Art. (3-0-3) F. Study of dominant stylistic tendencies and major figures in Greek, Hellenistic and Roman art. Prerequisite: Art majors, Art 2602 or Art 3601.

3640. Medieval Art. (3-0-3) F. Arts of the Early Christian, Byzantine, Early Medieval, Romanesque and Gothic periods. Prerequisites: Art majors, Art 2602 or Art 3601.

3650. Art of the Italian Renaissance. (3-0-3) S. Evolution and development of art forms in Italy during the Fifteenth and Sixteenth Centuries. Prerequisites: Art majors, Art 2602 or Art 3601.

3660. European Art of the Seventeenth and Eighteenth Centuries. (3-0-3) S. Study of the Baroque style in Italy and Northern Europe, including Rococo manifestations and relationship with the Baroque movement. Prerequisites: Art majors, Art 2602 or Art 3601.

3670. Nineteenth Century European Painting. (3-0-3) F. Leading artists, movements, and trends found in the painting and culture of Western Europe during the Nineteenth Century. Prerequisites: Art majors, Art 2602 or Art 3601.

3680. Twentieth Century Painting and Sculpture. (3-0-3) F, S. Major artists, developments, and significant achievements in painting and sculpture of the Twentieth Century. Prerequisites: Art majors, Art 2602 or Art 3601.

3690. Twentieth Century Architecture. (3-0-3) S. Architecture of the Twentieth Century; its roots in the past, its forms, its materials, its masters and its social impact. Prerequisites: Art majors, Art 2602 or Art 3601.

3701. Jewelry and Silversmithing II. (0-6-3) Advanced problems in jewelry construction developing the previously learned fundamentals in metal construction and introducing basic silversmithing processes. Prerequisite: Art 2700.

3702. Jewelry and Silversmithing III. (0-6-3) A continuation of Art 3701. Prerequisite: Art 3701.

3801. Weaving II. (0-6-3) Study of the theory of weaving. Experimentation and practice in design characteristics of weaves and materials. Prerequisite: Art 2800.

3802. Weaving III. (0-6-3) Advanced study of theory of weaving with individual concentration in designing on the loom. Further mastery of the media is stressed. Prerequisite: Art 3801.

3820. Weaving and Textile Design. (0-6-3) Pattern design principles as they apply to historical and contemporary textiles. Studio experiences may include work in weaving, silk screen, block printing, batik and stitchery. Prerequisite: Art 1110 or 1400.

3901. Visual Communication I. (0-6-3) Introduction to advertising layout; survey from business viewpoint and consumer market with study of typography, lettering and processes of reproduction.

3902. Visual Communication II. (0-6-3) Continuation of Art 3901 with more depth of experiences in problems involving air brush, silk screen mechanics, and other processes in reproduction. Prerequisite: Art 3901.

4000. Drawing IV. (0-6-3) Advanced drawing which is directed toward mastery of media and personal style. Prerequisite: Art 3000.

4051. Painting IV. (0-6-3) Attention centered on depth of expression through individual problems. Prerequisite: Art 3052.

4052. Painting V. (0-6-3) Continuation of Art 4051. Prerequisite: Art 4051.

4111. Sculpture IV. (0-6-3) Advanced study of sculpture directed toward mastery of form and materials and the development of a personal style. An individual plan of work must be presented upon registration for the course. Prerequisite: Art 3112 and permission of the instructor.

4112. Sculpture V. (0-6-3) Continuation of Art 4111 with an increasing depth of mastery expected. Prerequisite: Art 4111 and permission of the instructor.

4251. Ceramics IV. (0-6-3) Development of techniques and processes to a level of professional attainment; emphasis upon growth in area of student's interest. Prerequisite: Art 3252.

4252. Ceramics V. (0-6-3) Continuation of Art 4251 with increasing depth of mastery. Prerequisite: Art 4251.

4400. Independent Study. (0-6-3) Work in special problems selected to fulfill needs of the student. Prerequisites: Individual plan and permission of the instructor and chairman of the department, plus nine semester hours in the area of proposed study.

4580. Printmaking III. (0-6-3) Individual selection of printmaking processes and problems. Prerequisite: Art 3570.

4650. The Visual Arts in the Elementary and Junior High School. (3-0-3) S. Our cultural heritage in visual arts for teachers and approaches to fostering appreciation for this heritage. Prerequisite: Art 2440 or 2410. Not open to students whose major is in art.

4701. Advanced Metalsmithing I. (0-6-3) Problems in casting, chasing, repousse. Introduction to "Dutch, English, and non-resistant" raising; forming of seamed 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

4750. Sources and Methods of Art History Seminar. (2-0-2) S. Study of archaeological and documentary sources relative to the writing of art history; the systematic correlation of factual information. Prerequisite: Six semester hours of art history 3630 or above.

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.

4800. Advanced Weaving. (0-6-3) Advanced problems in weaving with particular emphasis upon design using multi-harness looms and double weave techniques to perfect skills. Prerequisite: Art 3802.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5100. Materials for Designing I. (2) Experimentation with various materials, their limitations and possibilities. Problems vary to meet individual needs.

5200. Painting Problems I. (3) Emphasis is placed upon the construction and development of form in painting. Prerequisite: Three undergraduate courses in painting.

5400. Problems in Art Education. (3) Analysis of individual and typical problems of teaching art in the public school or junior college. Prerequisites: Art 3410 and one year of teaching experience in art.

5560. Contemporary Printmaking. (3) A study of styles and techniques of contemporary printmakers. Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.

5571, 5572. Advanced Ceramics. (3 each course) Problem in ceramic design and construction with emphasis upon developing the individual's style and competence. Prerequisite: Nine semester hours undergraduate ceramics.

5600. Materials for Designing II. (2) Advanced study of problems of form. Prerequisite: A course plan arranged with the instructor and approved by the chairman of the department.

5610. Advanced Drawing. (3) Development of personal expression in drawing and marking systems. Prerequisite: Three courses in drawing or permission of the instructor.

5620. Watercolor. (3) Advanced study in various watercolor media. Prerequisite: Two courses in painting.

5671, 5672. Advanced Sculpture. (3 each course) Student to direct his study toward greater personal mastery of form, medium, and style. Prerequisite: Art 3112 or equivalent and permission of the instructor and the chairman of the department.

5701. Painting Problems II. (3) Independent study in painting directed toward greater personal expression. Prerequisite: Art 5200.

5702. Painting Problems III. (3) Continuation of Art 5701. Prerequisite: Art 5701.

5771. Problems in Metalsmithing I. (3) Advanced problems in metalsmithing with experimentation and development in a specific area. Historic and contemporary references will be included. Prerequisite: Eight semester hours equivalent to Art 2700 and 3701.

5772. Problems in Metalsmithing II. (3) Continuation of Art 5771. Prerequisite: Art 5771.

5800. Research in Art Education. (2) Familiarization with methods and structure of research in art education and the initiation of research projects to be carried out in the student's own classroom while teaching. Prerequisite: Graduate standing with a major in art.

5850. Art Internship. (3) Seminar discussion of various procedures in teaching college art courses and supervised intern teaching of prepared lessons within the department.

5871, 5872. Problems in Nineteenth and Twentieth Century Art I and II. (3 each course) Individual problems in the art expression of these two centuries. Seminar discussion and research papers relative to various stylistic developments.

5900. Research in Art. (2) Investigation into various procedures of research and their preparation in all art fields.

5950. Thesis. (3 to 6) Prerequisite: Art 5900. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

ARTS AND SCIENCES

In general, each course offered under this subject title is interdisciplinary in nature and includes a variety of teaching and learning modes, such as discussions, readings from basic sources, oral and written reports, and invited lectures. Each two-semester-hour course under this heading is offered in the post-summer session only, each three-semester-hour course in the pre-summer session only. Credit from these courses counts toward fulfillment of the distribution requirements in humanities, social studies, and mathematics-science. No student may receive credit toward graduation for both humanities courses, or for both social studies courses, or for both mathematics-science courses.

UNDERGRADUATE COURSES

3102, 3103. Humanities. (Arr.-Arr.-2; Arr.-Arr.-3) 3102 omitted 1975-76; 3103-Su. Topics to be announced. Recommended for partial fulfillment of the humanities requirement. No student may receive credit toward graduation for both of these courses.

3102, 3103. Social Studies. (Arr.-Arr.-2; Arr.-Arr.-3) 3102 omitted 1975-76; 3103-Su. Topics to be announced. Recommended for partial fulfillment of the social studies requirement. No student may receive credit toward graduation for both of these courses.

3102, 3103. Mathematics-Science. (Arr.-Arr.-2; Arr.-Arr.-3) 3102 omitted 1975-76; 3103-Su. Topics to be announced. Recommended for partial fulfillment of the mathematics-science requirement. No student may receive credit toward graduation for both of these courses.

3750. Summer Studies in Europe. (Arr.-Arr.-3 or 6) Su. Six weeks of study in a European nation. Study of the cultural intellectual economic and political aspects of the nation. This is a group of courses offered in several disciplines. (See Economics 3750, French 3750, German 3750, Spanish 3750, History 3750.) Registration is handled by the Director of Continuing Education, and students must register for at least six semester hours of work from these courses.

BOTANY

UNDERGRADUATE COURSES

1010. General Botany. (1-6-4) An audio-tutorial laboratory approach to the study of plants with particular emphasis on their structure, function, and economic importance. Prerequisite: Life Science 1000.

1022. Survey of Local Flora. (1-2-2) 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 3250 or Botany 3350. Not to count toward a botany major; designed primarily for students in home economics, elementary and junior high school curricula.

2503. Tropical Botany. (Arr.-Arr.-3) (Omitted 1975-76). (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.

3250. Elementary Medical Microbiology. (1-4-3) The basic principles and laboratory procedures of medical microbiology. Prerequisites: One year of biological science and one year of chemistry. Not open to those with credit or registration in Botany 3350. Designed primarily for students in the medical technology and other medically oriented curricula.

3350. Bacteriology. (1-4-3) F, S. The basic principles and laboratory procedures for the study of bacteria. Prerequisites: One year of biological science and one year of chemistry. Not open to those with credit or registration in Botany 3250. Designed primarily for students in the biological science curricula.

3361. Genetics. (1-4-3) S. The principles of heredity and variations in plants. Prerequisite: One year of biological science. Not open to those with credit or registration in Zoology 3200.

3450. Independent Study. (Arr.-Arr.-1-3) The student must submit to the chairman of the department, prior to registration, an outline of his proposed study, and be assigned credit and an instructor under whom the research will be done. Upon completion of the study, a written report suitable for publication will be submitted to the chairman of the department for credit evaluation and an oral report presented before a departmental seminar. Prerequisite: Two years of biological sciences and permission of the chairman of the department. May be taken more than once up to a total of three semester hours.

3541. Plant Physiology. (2-4-4) The study of water relations, mineral nutrition, phytohormones, photosynthesis, respiration, physiological ecology, and the metabolic effects on plant growth and development. Prerequisites: Botany 1010 and one year of chemistry.

4362. Mycology. (1-4-3) S. 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.

4611. Plant Ecology. (1-4-3) Su, F. The study of the structure, successional patterns, and investigative techniques of plant communities. Prerequisite: Two years of biological sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4751. Lichens. (0-4-2) F. The structure, identification, and importance of lichens. Prerequisite: Botany 2290.

4801. Systematic Botany. (1-4-3) Su, F. The classification and characteristics of the common families of flowering plants. Prerequisites: Botany 1010 and Botany 1022.

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 4611.

5222 (5602). Cytotaxonomy. (5) F. The structure and function of chromosomes and their relationship to the evolution and taxonomy of seed plants. Prerequisites: Botany 3361 or Zoology 3200; and Botany 4801.

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 3350 or 3250.

5351. Advanced Bacteriology. (2) F. Aspects of bacterial cytology, physiology, and genetics. Prerequisites: Chemistry 2430, Botany 3350 or 3250.

5362. Fungi I, Phycomycetes. (4) S. The structure, identification, and importance of the lower fungi. Prerequisite: Botany 2290; Botany 3350 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 4611.

5950. Thesis. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) Advanced studies in a selected field of Botany other than the thesis. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

BUSINESS EDUCATION AND ADMINISTRATIVE OFFICE MANAGEMENT

UNDERGRADUATE COURSES

1110. Basic Typewritten Communication. (3-1-3) F, S. Kinesthetic typewriting techniques with emphasis on typewriting as a communication tool. No credit for students having had equivalent of one semester of typewriting instruction.

1120. Intermediate Typewritten Communication. (3-1-3) F, S. Business and personal applications of typewriting for communications and reports. No credit for students having had equivalent of 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.

2110. Office Production Practicum. (3-1-3) F, S. Office production typewriting to meet business standards. Prerequisite: Business Education 1120 or equivalent.

2240. Advanced Shorthand/Transcription. (3-1-3) F, S. Dictation and transcription for executive secretarial responsibility. Prerequisites: Business Education 1250 or equivalent and 2110 (may be taken concurrently).

2250. Executive Secretarial Procedures. (3-0-3) F, S. Simulated office activities with emphasis on preparation for executive secretarial responsibilities. Prerequisite: Business Education 2240 or equivalent.

3000. Consumer Education. (3-0-3) F, S. Factors affecting 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.

3400. Methods of Teaching Business. (2-0-2) F, S. Foundations of business education, curriculum sources of assistance for the classroom teacher, and techniques of planning and evaluation for the business curriculums.

3410. Basic Business and Consumer Education Methods. (2-0-2) F, S. Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the basic business subjects. Prerequisite: Business Education 3400 or concurrently with 3400.

3420. Shorthand Methods. (2-0-2) F, S. Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in the secretarial business subjects. Prerequisites: Business Education 1250 or equivalent and 3400 or concurrently with 3400.

3430. Accounting Methods. (2-0-2) F, S. Specific teaching methods, content, textbooks, teaching materials, and audio-visual aids in accounting courses. Prerequisite: One year of collegiate accounting and Business Education 3400 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.

4740. Independent Study. (Arr.-Arr.-3) F, S. Student selects problem area in cooperation with instructor, conducts program of organized research and reading, prepares written formal report. Prerequisites: Senior standing and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Office Management. (3-0-3) S. Duties and responsibilities of the office manager and supervisor.

4920. Organization and Operation of Vocational Business Education Programs. (3-0-3) F, S. Vocational office and distributive education programs as provided by the Vocational Education Act of 1963 and Amendments to that Act.

4940. Coordination Techniques in Vocational Business Education. (3-0-3) F, S. Duties and responsibilities of the Office Occupations and Distributive Education coordinator in a reimbursable vocational program.

4950. Internship in Business Education. (Arr.-Arr.-3) F, S. A minimum of 360 hours employment in a firm approved by the instructor; a training memorandum and approval prior to enrollment is required. Prerequisite: Acceptance of the student by a business firm and by the instructor as evidenced by a training memorandum.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5050. Occupational Cooperative Education. (3) On demand. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5060. Administration and Supervision of Occupational Education. (2) On demand. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5070. Seminar in Occupational Education. (3) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

5080. Seminar in Occupational Education. (1) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

5090. Seminar in Occupational Education. (1-4) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take each course for credit in only one of the departments.

5200. Practicum in Data Processing. (3) Su. Nature and function of unit record with special emphasis on the development of teaching materials. Not open to students with credit in Management 2300 or equivalent.

5700. Foundations of Business Education. (3) Su. Philosophies and objectives of business education, evolution of the business curriculum, developments in occupational business education.

5720. Issues and Trends in Business Education. (3) Su. Current issues and problems in business education curriculum and practices which arise from needs and interests of students.

5730. Measurement and Evaluation in Business Education. (3) Su. Testing techniques; construction of tests in cognitive and skill areas; statistical procedures necessary for test interpretation and use.

5740. Improvement of Instruction in Basic Business and Consumer Education. (3) Su. Methods and techniques of teaching; development of materials; research in the areas of basic business and consumer education courses.

5750. Improvement of Instruction in Office Procedures and Data Processing. (3) Su. Methods and techniques of teaching; instructional materials and media; research in office procedures and data processing courses.

5760. Improvement of Instruction in Shorthand and Secretarial Skills. (3) Su. Methods and techniques of teaching; instructional media, materials and equipment; research in shorthand and secretarial skill courses.

5770. Touch Shorthand in the Secretarial Studies Curriculum. (3) Su. Specific teaching techniques, initial mastery and development of basic recording skill in touch shorthand. Prerequisite: Basic ability in a system of manual shorthand. Laboratory fee to cover cost of machine rental and supplies.

5780. Improvement of Instruction in Typewriting. (3) Su. Methods and techniques of teaching; instructional media, materials, and equipment; research significant to the teaching of typewriter-related skills.

5790. Improvement of Instruction in Bookkeeping and Accounting. (3) Su. Methods and techniques of teaching, development of materials, research in bookkeeping, record keeping, and general business courses.

5900. Research in Business Education. (3) 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, 1410 and 1415; Chemistry 1300 or 1310 and 1315, 1510 and 1515 or 1720.

Note: A breakage fee of $5 is charged for laboratory courses in Chemistry. The unused portion is returnable at the end of the course.

UNDERGRADUATE COURSES

1050. Chemistry — A Non-technical View. (3-2-4) 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.

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 - Bio-science. (3-0-3) The second semester of the general chemistry sequence - specifically designed for biological science majors and those in the various medical fields. Chemistry 1415 must be taken concurrently. Prerequisites: Chemistry 1300 or 1310; 1315.

1415. General Chemistry Laboratory II - Bio-science. (0-3-1) Must be taken concurrently with Chemistry 1410.

1510. General Chemistry II - Physical Science. (3-0-3) S. The second semester of the general chemistry sequence - specifically designed for physical science, mathematics and pre-engineering majors. Chemistry 1515 or 1720 must be taken concurrently. Prerequisites: Chemistry 1300 or 1310, 1315.

1515. General Chemistry Laboratory II - Physical Science. (0-3-1) S. Must be taken concurrently with Chemistry 1510 unless Chemistry 1720 is elected.

1720. Elementary Quantitative Analysis. (1-6-3) S. Principles of gravimetric, volumetric and potentiometric analysis. To be taken concurrently with Chemistry 1510 unless Chemistry 1515 is elected. Prerequisite: One semester of college mathematics. Primarily for but not restricted to chemistry majors. Credit not granted for both Chemistry 1720 and 2340.

2340. Quantitative Analysis. (1-6-3) The general principles of volumetric and gravimetric analysis with an introduction to spectrophotometry. Prerequisites: Chemistry 1410 and 1415 or 1510 and 1515; one semester of college mathematics. Credit not granted for both Chemistry 1720 and 2340.

2430. 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) F, S. A continuation of Chemistry 2430. Prerequisite: Chemistry 2430 and 2435. Credit not granted for those with credit in Chemistry 2840.

2600. Introduction to Medical Technology. (1-2-2) S. Orientation to the field of medical technology. Limited enrollment. Course is Pass-Fail. Prerequisite: Open to sophomore medical technology students only. Permission of the chairman of the Medical Technology Program.

2830, 2840. Organic Chemistry. (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. (1-0-1) A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For juniors.

3100. Practicum in Chemistry. (0-3-1) Practical experience in preparing and handling chemical materials, supervising a chemical stockroom and assisting in a chemistry laboratory. Prerequisite: Two years of college chemistry. Should be completed prior to student teaching. Enrollment is restricted to chemistry majors.

3460. Biochemistry. (3-3-4) 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 2340 recommended.

3910, 3920. Physical Chemistry. 3910 (4-0-3) F. 3920 (3-0-3) S. To be taken in sequence. A study of the principles governing chemical change. Included are: thermodynamics, kinetics, quantum theory and statistics. Prerequisites: Chemistry 1510; Physics 1360; Mathematics 2352.

4000. Undergraduate Seminar. (1-0-1) A thorough search of a recent development in chemistry and the presentation of a talk based on this search. For seniors. Prerequisite: Chemistry 3000.

4400. Independent Study. (Arr.-Arr.-1 to 6) Laboratory or library problems in which the student works under the supervision of a staff member. A written report is required. Prerequisite: Permission of the instructor and chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. Equilibrium and Dynamics Laboratory. (0-6-2) S. Experimental investigation of the thermodynamic and kinetic behavior of several chemical systems. Prerequisite: Chemistry 3910; Mathematics 2320 is strongly recommended.

4770. Molecular Structure Laboratory. (1-6-3) F. Experimental determination of molecular structure using NMR, mass spectroscopy, UV-Visible and IR spectroscopy. Prerequisite: Chemistry 3920.

4780. Instrumental Analysis Laboratory. (1-3-2) F. Instrument design, operation and application of flame and atomic absorption spectroscopy, chromatography, potentiometry, coulometry and polarography. Prerequisite: Chemistry 3910; or simultaneous enrollment therein.

4900. Modern Inorganic Chemistry. (3-0-3) F. A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. Prerequisite: Chemistry 3910. Chemistry majors enroll concurrently in Chemistry 4905.

4905. Modern Inorganic Chemistry Laboratory. (0-3-1) F. Prerequisite: Chemistry 4900 or simultaneous enrollment therein.

4940. Nuclear Chemistry. (2-3-3) S. Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses. Prerequisite: Two years of chemistry.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

The following courses are available for the M.S. in Education degree in Physical Science: 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) (Omitted 1975-76). 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) (Omitted 1975-76) 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) (Omitted 1975-76) 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) F. Modern theories of chemical bonding, magnetic properties and organometallic chemistry of the transition metals. Prerequisite: Chemistry 3920.

5130. Theoretical Inorganic Chemistry II. (2) S. Descriptive and theoretical aspects of the nontransition elements and their compounds. Prerequisite: Chemistry 3920.

5200. Chemical Thermodynamics. (3) 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) 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.

5430. Special Topics in Organic Chemistry. (3) (Omitted 1975-76). A study of topics not ordinarily covered in the basic introductory organic chemistry courses. Prerequisites: Chemistry 2840, 3920.

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)

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.

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.)

3010. Climatology. (2-2-3). Study of the earth's energy and water balances, advanced climate classification systems, synoptic climatology, paleoclimatology, agricultural and urban climatology, theory of jet streams. Prerequisite: Earth Science 1410 (or equivalent including 3010).

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.

3890. Labor Economics. (3-0-3) F. Wage theory, history of the labor movement, collective bargaining, labor legislation, and poverty. Prerequisite: Economics 2802 or permission of the instructor.

3990. Summer Study in Ireland. (0-0-6) Su. Independent study in economics. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

4505. Business Cycles. (3-0-3) S. Fluctuations in economic activity and their causes, methods of forecasting, and policies for growth and stability. Prerequisite: Economics 2802.

4511. Comparative Economic Systems. (3-0-3) (Omitted 1975-76). 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 1975-76). 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) F. 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 1975-76). 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 1975-76). 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 1975-76). A descriptive analysis of the economic structure of the Soviet Union with primary emphasis on the post World War II period. Prerequisite: Economics 2802 or permission of the instructor.

4840. Money and Banking. (3-0-3) F. Money and banking in the modern economy; history and theory of monetary policy. Prerequisite: Economics 2802 or the equivalent.

4859. Economics of Public Financial Policy. (3-0-3) F. The economic implications of government spending, taxing, and borrowing with some emphasis on state and local governments. Not open to majors in economics.

4861. International Economic Problems. (3-0-3) 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 1975-76). 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 to 3) Independent study in economics. Designed for the individual student needs at either the undergraduate or graduate level. Prerequisite: Economics 2802 and pre-registration conference with the chairman of the department.

4991. Statistics Applied to Economics I. (3-0-3) F. Measures of central tendency and dispersion, statistical distributions, regression, and hypothesis testing with applications to economics. Prerequisite: Economics 2802 or permission of the instructor. No credit toward graduation for a student with credit in another introductory statistics course.

4992. Statistics Applied to Economics II. (3-0-3) 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.)

5801. Advanced Macroeconomic Theory. (3) S. Advanced analysis of determination of income, employment, investment, and wages; inquiry into the nature of equilibrium and equilibrating process. Prerequisite: Economics 4801 or permission of the instructor.

5802. Advanced Microeconomic Theory. (3) S. A development of value and distribution theories. Detailed analysis of the reactions of consuming and producing units. Prerequisite: Economics 4802 or permission of the instructor.

5821. Seminar in Recent History of Economic Thought. (3) F. A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1900. Prerequisite: Economics 4520 and/or permission of the instructor.

5841. Seminar in Monetary Theory. (3) F. Critical inquiry into the nature of the demand for money and the effect of monetary policy on national income and employment. Prerequisite: Economics 4840 or equivalent.

5843. Seminar in Financial Institutions. (3) S. The functioning of major private and public financial institutions. Prerequisite: Economics 4840 or the equivalent.

5851. Seminar in Public Finance. (3) S. A study of the relationship between the public sector and the rest of the economy. Prerequisites: Economics 4801 and 4802.

5861. Seminar in International Economics. (3) F. A study of the pure and monetary theories of international economics. Prerequisite: Economics 3860 or permission of the instructor.

5871. Seminar in Economic Development. (3) S. A study of the theories and institutions of development and underdevelopment. Prerequisite: Economics 4570 or permission of the instructor.

5881. Seminar in Public Control of Industry. (3) F. Selected problems of economic policy arising from the interrelations of government and business with emphasis on maintaining competitive enterprise. Prerequisite: Economics 3880 and/or permission of the instructor.

5891. Problems in Labor Economics. (3) F. The theory of wages and employment; the applications of the theory to contemporary problems. Prerequisite: Economics 3890 and/or permission of the instructor.

5893. Economics of Manpower Resources. (3) (Omitted 1975-76) 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.

5880. School Business Administration. (2) S. A study of the principles of financial management as they relate to the administration of funds in public education at the local level. Prerequisite: Educational Administration 5860 or equivalent.

5900. Introduction to Research in Education. (2) Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.

5910, 5920. Internship in Administration. (3 each course) Prerequisite: Permission of the chairman of the department.

5950. Thesis (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

6200. Curriculum in Higher Education. (2) S. A unified study of college and university curricula.

6210. The Junior College Movement. (2) (Omitted 1975-76). 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.

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. Field Experience in Administration. (4) F, S. The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.

6920. Field Experience in Administration. (4) F. S. The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the chairman of the department.

EDUCATIONAL FOUNDATION

UNDERGRADUATE COURSES

4450. Philosophy and History of Education. (3-0-3) The philosophical and historical foundations of leading educational theories as they treat human nature, objectives, and processes of education.

4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

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.

5550. Comparative Education. (3) On demand. Selected educational systems of developed and emerging nations in their cultural settings.

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 Industrial Arts. A student may take the course for credit in only one of the departments.

5060. Administration and Supervision of Occupational Education. (2) On demand. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5070. Seminar in Occupational Education. (3) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take 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 Industrial Arts. 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 Industrial Arts. 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) F. A study of the principles and their application in the area of group guidance. Prerequisite: Educational Guidance 4900 or 4910.

5950. Thesis and Research. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisite: Permission of the chairman of the department.

5990. Independent Study. (1 to 6) Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

6880. Seminar in Guidance. (3) 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. Prerequisite: Educational Guidance 5930 and permission of the chairman of the department.

6910. Field Study in Guidance. (3) F. Supervised experience in all services normally considered a part of the guidance program. Prerequisites: Educational Guidance 5930 and permission of the chairman of the department.

6941. Principles of Group Counseling. (2) S. A study of the principles and their application in the area of group counseling including techniques of group discussion, sociometrics, and role-playing. Prerequisite: Educational Guidance 5890.

EDUCATIONAL PSYCHOLOGY

UNDERGRADUATE COURSES

3320. Educational Psychology and the Instructional Task in Secondary School. (5-0-5) Individual growth and development, motivation, learning theory, appraisal of human differences. General methods, planning, instructional materials, classroom management, student evaluation, innovative practices, and professionalism. Prerequisite: Psychology 2310, junior standing. Team teaching with Secondary Education. A student may take the course for credit in only one of the departments.

4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

4770. Facilitating Interpersonal Relationships. (3-0-3) F. A course to develop skills in interpersonal relationships and personal understanding.

4780. Studies in Education. (3-0-3) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4790. Studies in Education. (2-0-2) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4800. Studies in Education. (1-0-1) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4990 (Ed. Guid. 5430). Measurement and Evaluation. (3) Nature and use of standardized and teacher-made tests. Selection, administration, and use. Prerequisites: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5400. Advanced Educational Psychology. (3) Su, 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) Su, F. 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) Su. A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior. Prerequisite: Educational Guidance 5920 or permission of the chairman of the department.

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

0990. Reading and Study Improvement for University Students. (0-2-0) Basic reading instruction designed to improve rate, comprehension, and general study habits for university students.

1230. Laboratory in Elementary Education. (2-1-2) F, S. A laboratory course emphasizing directed observations and participation in classrooms with children of pre-school through junior high school ages. Required of freshmen and lower division transfer students in the elementary and junior high school education curricula.

2320. Human Growth, Development, and Learning. (3-0-3) Physical, social, emotional, and intellectual growth and development of children and early adolescents. Prerequisite: Psychology 2310.

3240. Directing Learning in the Elementary School. (3-1-3) Organization of instructional programs; planning learning experiences, evaluation, guidance, and classroom management; use of instructional media equipment. Prerequisite to student teaching. 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) 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) 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) 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.

4690. Material and Activities in Elementary Science. (3-0-3) (On demand). Selection, construction, application of materials for science teaching, and in-depth study of methods of science teaching. Prerequisite: Student teaching or teaching experience at the elementary level; Elementary Education 3290 or permission of the chairman of the department.

4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Education in the Inner City School. (3-0-3) (On demand). A course in methods, materials, characteristics and values basic to the teaching of students who attend the inner city school. Prerequisite: Eight semester hours in education and psychology, or permission of the chairman of the department.

4760. Gifted and Creative Students. (3-0-3) Su. A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.

4780. Studies in Education. (3-0-3) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4790. Studies in Education. (2-0-2) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4800. Studies in Education. (1-0-1) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5260. Advanced Developmental Reading. (3) A study of the nature of reading instruction in the elementary school; approaches, goals, materials, techniques, and evaluation procedures. Prerequisite: Elementary Education 3280 or equivalent.

5490. Special Educational Problems. (1-3) On demand. Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of chairman of the department. May be repeated for a total of six semester hours credit.

5560. Problems in the Teaching of Reading. (3) Su, F. A study of the types and causes of reading difficulty; methods of diagnosis and remediation for teachers, clinicians, and supervisors. Prerequisite: Eight semester hours in education and psychology, including Elementary Education 3280 or equivalent.

5570. Early Childhood Education. (3) 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. (2) Su, S. 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.

5670. Advanced Laboratory in Elementary Education. (3) (On demand). A study of curriculum problems, trends, and developments using observations and demonstrations and analysis of instructional media and pertinent research. Prerequisite: Six semester hours in graduate courses in elementary education. Students may enroll a second time for credit.

5680. Guiding Student Teaching. (3) (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.

5900. Introduction to Research in Elementary Education. (2) On demand. Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.

5950. Thesis. (3 to 6) On demand. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

ENGLISH

Note: A student who enters the University with a deficiency in the basic skills in English — reading, writing, spelling, elements of grammar and good usage — may be required to take work in remedial English in addition to the required freshman composition courses.

Note: Courses in English are grouped for curriculum selection as follows (and the Groups are further indicated by numbers at the end of the course description):

1) Required Courses: 2601, 4300
2) Linguistics: 2901, 3901, 4901, 4902
3) Composition: 2003, 3001, 3003
4) Literary Criticism: 2205, 3205, 3206, 3505
5) Comparative Literature: 2602, 2603, 2607, 2608, 2609, 3504, 3505, 3600, 3607, 3608
6) Medieval Period: 2801*, 4801, 4802
7) Renaissance: 2801*, 3205, 3801, 3802, 4803, 4804
8) Neo-Classical: 2801*, 2805, 3205, 4805, 4806
9) Nineteenth Century: 2602, 2701*, 2702*, 2802*, 2805, 2806, 3206, 3701, 3702, 3805, 3806, 4770
10) Twentieth Century: 2602, 2608, 2609, 2702*, 2705, 2802*, 2806, 3206, 3504, 3607, 3608, 3703, 3808
11) Drama: 2607, 2608, 3607, 3608, 3801, 3802
12) American Literature: 2701*, 2702*, 2705, 3700, 3701, 3702, 3703, 4750, 4770

*May be used for one group only.

UNDERGRADUATE COURSES

1001. Composition. (3-0-3) A basic course in theme writing, designed to develop facility in matters of sentence structure, paragraph development, and organization.

1002. Types of Literature. (3-0-3) An introduction to the major genres (poetry, fiction, drama). Frequent analytical papers required. Prerequisite: English 1001. Students may not enroll in English courses numbered above 1002 until they have completed English 1002, or, in the case of transfer students, until they have satisfied the all-university English requirement.

2003. Introduction to Creative Writing. (3-0-3) Su, F. Practice in writing poems, short stories, or plays. Class discussion of the student's writing. (Group 3)

2205. Introduction to Literary Criticism. (3-0-3) F. Terminology and procedures of literary criticism, with attention to critical approaches such as social, formalist, psychological, and archetypal. (4)

2601. Backgrounds of Western Literature. (4-0-4) A reading of major world masterpieces through the Renaissance, works that lie behind literature in English, by such writers as Homer, Sophocles, Plato, Virgil, Dante, Rabelais, Montaigne, Cervantes. Required of English majors, open to others. (1)

2602. World Literature since the Renaissance. (3-0-3) S. Emphasis on generally recognized masters, such as Goethe, Voltaire, Flaubert, Dostoevsky, Tolstoy, Gide, Mann, Kafka, Camus. (5, 9, 10)

2603. Mythology. (3-0-3) The myths, chiefly Greek and Roman, most often retold, interpreted, or alluded to by the writers and literary critics of Western Europe and America. (5)

2607. World Drama before Ibsen. (3-0-3) F. Representative dramatists, such as Aeschylus, Sophocles, Euripides, Aristophanes, Marlowe, Moliere, Racine, Goethe, Schiller. (5, 11)

2608. World Drama from Ibsen. (3-0-3) S. Representative dramatists, such as Ibsen, Chekhov, Strindberg, Shaw, O'Neill, Williams, Miller, Wilder, Beckett, Genet, Pinter. (5, 10, 11)

2609. Modern World Fiction. (3-0-3) 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) Su, 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) Su, F. The major writers of Black American literature, with emphasis on such authors as Toomer, Hughes, Brooks, Wright, Ellison, Baldwin, Hansberry, Jones. (10, 12)

2801. English Literature I. (3-0-3) Su, F. Selected prose and poetry (excluding the novel) from Beowulf to Sheridan. (6, 7, 8; use for one group only)

2802. English Literature II. (3-0-3) S. Selected prose and poetry (excluding the novel) from Burns to the present. (9, 10; use for one group only)

2805. English Novel I. (3-0-3) F. Richardson, Fielding, Austen, Scott, Thackeray, Dickens, and others. (8, 9)

2806. English Novel II. (3-0-3) S. George Eliot, the Brontes, Meredith, Hardy, Conrad, Joyce, Lawrence, and others. (9, 10)

2901. Linguistic Analysis of Modern English. (3-0-3) Introduction to the syntactic, semantic, and phonological components of Modern English, within the framework of generative-transformational grammar. (2)

3001. Advanced Rhetoric. (3-0-3) Su, S. Advanced application of the principles of expository writing. Attention to development of an individual style. (3)

3003. Advanced Creative Writing. (3-0-3) S. Experience in writing poems, short stories, plays. Prerequisite: English 2003 or permission of the instructor. May be taken twice with permission of the chairman of the department and Dean, College of Arts and Sciences. (3)

3205. Literary Criticism I. (3-0-3) F. Selected critics from Plato to Johnson. (4, 7, 8)

3206. Literary Criticism II. (3-0-3) Su, S. Selected critics from Coleridge to the present. (4, 9, 10)

3400. Methods of Teaching English in the High School. (3-0-3) Problems, materials, and methods for teaching English in the high school. (No group)

3405. Literature in the Grades. (3-0-3) Emphasizes wide acquaintance with the great bodies of world literature, myth, legend, etc., and with the best poetry for children. Enrollment restricted to students in the elementary education curriculum. (No group)

3504. Film and Literature. (2-2-3) F, S. 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, 5)

3600. The Bible as Literature. (3-0-3) Types of literature in the Old and New Testaments. (5)

3602. Studies in Major Poets. (3-0-3) F, S. Studies in depth of British, American, and world poets, with no more than three poets examined during any one semester. Topics for 1975-76: Fall – Contemporary Women Poets: Sexton, Plath, McDonald (10, 12); Spring – Shelley, Byron, Blake (9). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.

3603. Studies in Major Novelists. (3-0-3) F, S. Studies in depth of British, American and world novelists, with no more than three novelists examined in any one semester. Topics for 1975-76: Fall – Smollett and Sterns (8); Spring – Dostoevsky and Tolstoy (5, 9). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.

3604 (4600). Special Topics in Literature. (3-0-3) F, S. Special topics in British, American, or comparative literature not ordinarily treated in standard courses. Topics for 1975-76: Fall – Social Protest in American Drama (11, 12); Spring – The Myth of the West: Western American Literature (9, 10, 12).

3607. Theory and Practice of Modern Drama I. (3-3-3) F. Ibsen, Shaw, Chekhov, Strindberg, O'Neill, Miller. Taught jointly by the Departments of English and Theatre Arts. Literary analysis, acting, and directing. (5, 10, 11)

3608. Theory and Practice of Modern Drama II. (3-3-3) S. Williams, Wilder, Beckett, Ionesco, Genet, Pinter, Albee. (5, 10, 11)

3700. Colonial American Literature. (3-0-3) F. From the beginning through the Revolutionary period. (12)

3701. American Fiction to 1900. (3-0-3) F. 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) 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) Su, 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. Theoretical and Applied Linguistics. (3-0-3) S. Study of the nature of language and linguistic theories, and the application of linguistics to literary studies, composition, and other areas. Prerequisite: English 2901. (2)

3990. Summer Study in Ireland. (Arr.-Arr.-6) Independent research in English. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors. (Group varies according to topic)

4300. Senior Seminar. (4-0-4) F, S. Major topics in English, American, and comparative literature and language, with topics varying each semester. Topics for 1975-76: Fall – The Tragic Mode (Sect. 1), Stylistics (Sect. 2); Spring – Supernaturalism in Literature (Sect. 1), Contemporary American Dialects (Sect. 2). Required of and limited to English majors. (1)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Studies in Black Literature. (3-0-3) S. Study in depth of various genres, movements, periods, and major writers in black literature. Only one genre, movement, or period or only two or three major writers will be studied during any semester. Topic for Spring 1976: Four Black Women Writers: Hurston, Brooks, Marshall, Giovanni (10, 12). May be taken as many as three times with permission of the chairman of the department and Dean, College of Arts and Sciences.

4770. The Transcendental Movement. (3-0-3) 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. 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) (Omitted 1975-76). 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. 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. 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)

4902. Generative-Transformational Grammar. (3-0-3) S. Analysis of problems in syntax, semantics, and phonology according to the standard theory and current variations of that theory. Prerequisite: English 3901. (2)

4905. Methods of Teaching Children's Literature. (3-0-3) S. For elementary education and English majors, designed to increase their knowledge of children's literature and to suggest methods for teaching literature in grades one through six. (No group)

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5000. Studies in Old English. (4) (Omitted 1975-76). 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) (Omitted 1975-76). 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) F. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Fall 1975: Shakespeare: The Major Tragedies.

5003. Studies in Seventeenth 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. Topics for Spring 1976: The Metaphysical Poets.

5004. Studies in Restoration and Eighteenth Century British Literature. (4) (Omitted 1975-76). 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) Su. A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester. Topic for Summer 1975: The Later Romantics.

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. Topic for Fall 1975: Yeats and Eliot.

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. Topic for Spring 1976: Twentieth Century Formalism in Criticism and the Arts.

5008. Studies in Colonial American Literature. (4) (Omitted 1975-76). 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. Topic for Fall 1975: Mark Twain.

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. Topic for 1975-76: Summer – The Twenties; Spring – The Jewish Novel.

5011. Studies in Linguistics. (4) Su. Areas of concentration to be chosen from syntax, semantics, phonology, stylistics, psycho-linguistics, historical linguistics, dialetical linguistics, or comparative linguistics. The topic will vary from semester to semester. Topic for Summer 1975: Psycholinguistics.

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. Topic for Fall 1975: Eighteenth and Nineteenth Century French and German Influences.

5061. Special Topics in British and/or American Language and Literature. (4) Su, S. Special topics in British or American literature not ordinarily treated in standard courses. The topic will vary from semester to semester. Topics for Spring 1976: Drama since 1950.

5950. Thesis. (3 to 6) Enrollment for more than three semester hours requires permission of the chairman of the department and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) Advanced study of a topic selected by the student, subject to the approval of his advisor. Enrollment for more than three semester hours requires permission of the chairman of the department and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

FOREIGN LANGUAGES

Modern languages courses are conducted in the target language. Majors are encouraged to spend up to two semesters abroad after their sophomore year. Credit from approved study abroad programs will be accepted. Placement in the foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I Number of high school units in the language	II Course in (or beyond) which the student may enroll for college credit	III Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
0-1 year	French 1101 German 1101 Latin 1101 Russian 1101 Spanish 1101	French 1102 German 1102 Latin 1102 Russian 1102 Spanish 1102
2 years	French 1102 German 1102 Latin 1102 Russian 1102 Spanish 1102	French 2201 German 2201 Latin 2201 Russian 2201 Spanish 2201
3 years	French 2201 German 2201 Latin 2201 Russian 2201 Spanish 2201	French 2202 German 2202 Latin 2202 Russian 2202 Spanish 2202
4 years	French 2202 German 2202 Latin 2202 Russian 2202 Spanish 2202	a course numbered above 3000

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

Note: A student wishing to count foreign language as a humanities requirement is referred to the statement under General Education Requirements.

FOREIGN LANGUAGE — CLASSICS

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

4750. Greek Literature in English Translation. (3-0-3) F. A survey course devoted to the masterpieces of Greek literature from Homer to Demosthenes.

4760. Latin Literature in English Translation. (3-0-3) S. A survey course devoted to the masterpieces of Latin literature from Plautus to Suetonius.

FOREIGN LANGUAGE — FRENCH

UNDERGRADUATE COURSES

1001. Conversational French for Beginners. (2-0-2) S. Pass-Fail only. Introduction to understanding and speaking everyday French. Not open to majors and minors in French.

1101, 1102. Elementary French. (4-0-4 each course) F, S. Emphasis on grammar, phonetics, reading, conversation; extensive use of language laboratory. Prerequisite: For French 1102, French 1101.

2201, 2202. Intermediate French. (4-0-4 each course) F, S. Review of grammar; exercise in composition and conversation; readings; extensive use of language laboratory. Prerequisite: For French 2201, French 1102 or two years of high school French; for French 2202, French 2201 or permission of the chairman of the department.

3300 (3302). French Phonetics. (3-0-3) F. Systematic drills used to increase the student's knowledge of the phonological structure of French and to eliminate errors caused by the interference of the student's native English. Prerequisite: French 2202 or permission of the chairman of the department.

3301. French Conversation. (3-0-3) S. Consolidation of grammatical and phonological principles through their application in oral expositions. Prerequisite: French 2202 or permission of the chairman of the department.

3304. French Civilization. (3-0-3) S. Prerequisite: French 2202 or permission of the chairman of the department.

3305. French Literature I. (3-0-3) F. Survey of French literature from the Middle Ages to the Eighteenth Century. Prerequisite: French 2202 or permission of the chairman of the department.

3306. French Literature II. (3-0-3) S. Survey of French literature from the Eighteenth Century to the present. Prerequisite: French 2202 or permission of the chairman of the department.

3400. Methods of Teaching French. (3-0-3). F, S.

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) (Omitted 1975-76). 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. 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, S. Prerequisite: French 3301 or permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. French Drama I. (3-0-3) (Omitted 1975-76). French drama of the Seventeenth Century.

4760. French Drama II. (3-0-3) (Omitted 1975-76). French drama from the Eighteenth Century to the present.

4770. French Poetry. (3-0-3) F.

4810. French Advanced Phonetics and Diction. (3-0-3) F.

4820. French Stylistics. (3-0-3) (Omitted 1975-76).

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.

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.

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. 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 1975-76). Prerequisite: German 2202 or permission of the chairman of the department.

3303. German Linguistics. (3-0-3) S. 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. Prerequisite: German 2202 or permission of the chairman of the department.

3306. German Twentieth Century Literature. (3-0-3) (Omitted 1975-76). Prerequisite: German 2202 or permission of the chairman of the department.

3400. Methods of Teaching German. (3-0-3). F.

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) S. Prerequisite: Three years of college German or permission of the chairman of the department.

4402. Topics of German Literature. (3-0-3) F, S. Prerequisite: Three years of college German or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. German Advanced Composition and Conversation. (3-0-3) Su, F. Prerequisite: Three years of college German or permission of the chairman of the department.

4760 (5512). Goethe. (3-0-3) Su 1975.

4770. Survey of German Literature I. (3-0-3) F. 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.

4780. Survey of German Literature II. (3-0-3) S. 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-Su, 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. 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. 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) (Omitted 1975-76) 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) (Omitted 1975-76) 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 1975-76) Selections from Catullus, Horace, Martial; Latin prosody. Prerequisite: Latin 2202 or permission of the chairman of the department.

3400. Methods of Teaching Latin. (3-0-3). F.

4401. Ovid. (3-0-3) F. Selections from Tristia, Heroides, Amores, Fasti, Metamorphoses. The life and times of Ovid; Roman and Greek mythology. Prerequisite: Latin 3304 or permission of the chairman of the department.

4402. Latin Composition. (3-0-3) S. Extensive training and practice in expression in idiomatic classical Latin. Prerequisite: Latin 3304 or permission of the chairman of the department.

4403. Medieval Latin. (3-0-3) F. (Omitted 1975-76) Analysis of the basic differences between Classical and Medieval Latin. Readings in the history, poetry, and philosophy of the Middle Ages. Prerequisite: Latin 3304 or permission of the chairman of the department.

4404. Roman History. (3-0-3) S. (Omitted 1975-76) Selections from Books XXI and XXII of Livy; selections from Tacitus' *Germania, Agricola, Annals,* and *Histories*. Prerequisite: Latin 3304 or permission of the chairman of the department.

FOREIGN LANGUAGE—LINGUISTICS

UNDERGRADUATE COURSES

3350. Historical Linguistics. (3-0-3) F. Introduction to historical linguistics. General principles and methods used in historical linguistic study and the types of change found in language. Prerequisite: Junior standing or permission of the chairman of the department.

FOREIGN LANGUAGE—RUSSIAN

UNDERGRADUATE COURSES

1001. Conversational Russian for Beginners. (2-0-2) F, S. Pass-Fail only. Introduction to understanding and speaking everyday Russian. Not open to Russian minors.

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.

2201, 2202. Intermediate Russian. (4-0-4 each course) 2201-F; 2202-S. Study of grammar continued; written and oral exercises; reading of selected material. Prerequisite: For Russian 2201, Russian 1102 or two years of high school Russian; for Russian 2202, Russian 2201 or permission of the chairman of the department.

3301. Russian Conversation and Writing. (3-0-3) F. Prerequisite: Russian 2202 or permission of the chairman of the department.

3303. Russian Linguistics. (3-0-3) (Omitted 1975-76) Prerequisite: Russian 2202 or permission of the chairman of the department.

3304. Masterpieces of Russian Literature. (3-0-3) (Omitted 1975-76) Prerequisite: Russian 2202 or permission of the chairman of the department.

3306. Russian Civilization. (3-0-3) (Omitted 1975-76) Prerequisite: Russian 2202 or permission of the chairman of the department.

3308. Russian Dramatists. (3-0-3) (Omitted 1975-76) Prerequisite: Russian 2202 or permission of the chairman of the department.

3360. Twentieth Century Russian Literature in English Translation. (3-0-3) F, S. Prerequisite: Junior standing or permission of the chairman of the foreign language department.

3400. Methods of Teaching Russian. (3-0-3) (Omitted 1975-76)

FOREIGN LANGUAGE—SPANISH

UNDERGRADUATE COURSES

1001. Conversational Spanish for Beginners. (2-0-2) F. Pass-Fail only. Introduction to understanding and speaking everyday Spanish. Not open to Spanish majors and minors.

1101, 1102. Elementary Spanish. (4-0-4 each course) Emphasis on conversation, grammar, reading; extensive use of language laboratory. Prerequisite: For Spanish 1102, Spanish 1101.

2201, 2202. Intermediate Spanish. (4-0-4 each course) 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) (Omitted 1975-76) 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. 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. Introduction to Spanish American literature from the Colonial period to 1886. Prerequisite: Spanish 3301 or permission of the chairman of the department.

3306. Spanish American Literature II. (3-0-3) S. Introduction to Spanish American literature from 1886 to present. Prerequisite: Spanish 3301 or permission of the chairman of the department.

3400. Methods of Teaching Spanish. (3-0-3) F, S.

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. Masterpieces of Spanish Literature. (3-0-3) F. 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) S. Prerequisite: Three years college Spanish or permission of the chairman of the department; this course may be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Spanish Poetry. (3-0-3) F. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

4760. Spanish Drama. (3-0-3) (Omitted 1975-76) 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) S. Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

4780. Spanish Novelists. (3-0-3) (Omitted 1975-76) Prerequisite: Three years of college Spanish or permission of the chairman of the department. May be taken twice with permission of the chairman of the department and approval of the Dean, College of Arts and Sciences.

GEOGRAPHY

UNDERGRADUATE COURSES

1500. World Geography. (3-0-3) 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.

3020. Anglo-America. (3-0-3) F. Man's occupance of the continent of North America with topical and regional emphasis on the United States.

3400. Instructional Techniques. (3-0-3) F. A study of the materials and methods used in the teaching of geography in the secondary school. Admission to teacher education and junior standing.

3510. Middle America. (2-0-2) S-even numbered years. An analysis of the resources, culture and problems of Mexico, Central America and West Indian Island.

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. 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.

4510. Geography of South America. (3-0-3) F-odd numbered years. Physical feature, resources, peoples, land utilization and economic development of the countries of South America.

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.

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.

4550. The Soviet Union. (3-0-3) S-odd numbered years. An analysis of the physical and cultural elements that make up the geographical regions of the Soviet Union.

4580. Geography of Africa. (3-0-3) S-odd numbered years. A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.

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. Prerequisite: Mathematics 1310 or equivalent and Geography 3800.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5950. Thesis. (3 to 6) 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) On demand. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

GEOLOGY

UNDERGRADUATE COURSES

1400. Physical Geology. (3-2-4) Common rocks and minerals; erosional processes that modify the Earth's surface, internal crustal activity. Field trip. No credit if Earth Science 3000 is taken.

2430. Historical Geology. (2-2-3) F, S. Development of major structural segments of Earth's crust; fossil record of life; age relations among rock units. Field trip. Prerequisite: Geology 1400.

2440. Mineralogy. (1-4-3) F. A study of minerals with emphasis on crystallography, genesis, association, and classification. Prerequisites: Geology 1400 and one course of college level chemistry.

3040. Modern Global Geoscience. (2-2-3) F, S. 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.

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.

3010. Public Health Nursing. (3-0-3) Su. A review of public health nursing principles, particularly for school nurses. Prerequisite: Permission of the chairman of the department. Recommend further work in health education which is a commonality course area for all public health personnel.

3200. School Health. (2-0-2) A survey of the school health program with emphasis on the responsibilities of school personnel. Prerequisite: Health Education 1200 or equivalent.

3300. Principles of Accident Prevention. (2-0-2) Safety problems of modern life in the home, school, during recreation, on the highway, and at work.

3310. Introduction to Driver Education. (3-2-4) Preparation for high school driver education teachers. Includes simulation and work with beginning drivers. Prerequisites: Driver's license and safe driving record.

3320. Advanced Driver Education and Traffic Safety. (2-0-2) Administration, organization, finance, special programs, and evaluation of school driver education programs.

3340. Accident Prevention in Schools. (2-0-2) Scope of the school safety problem. Administrative, instructional and community responsibility for safe schools.

3350. Industrial Accident Prevention. (2-0-2) S. Trends and organizational techniques in accident prevention programs as related to industrial operations.

3400. Teaching Health. (3-0-3) F, S. Teacher preparation in curriculum development appraising materials, methods of presentation.

3500. Human Sexuality. (3-0-3) A study of the biological, psychological, and cultural dimensions of human sexuality.

3750. Health Care Delivery Systems. (3-0-3) F, S. Review of contemporary approaches to the delivery of health care services in the United States.

4000, 4010, 4020. Community Health Field Service. (4000, 4010-3 sem. hrs. each; 4020-2 sem. hrs.) An individually planned internship in a community health agency or organization. Prerequisites: Health Education 2270, 3200, 3750; and approval of the chairman of the department.

4741, 4742, 4743, 4744, 4745, 4746. Independent Study. (Arr.-Arr.-1, 2, 3, 4, 5, 6 respectively) An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected 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 five phase driver education curriculum. Actual practice with multi-media equipment-simulators, student response systems and the multi-car range. Prerequisites: Health Education 3310 or concurrent enrollment or permission of the instructor.

4996. Problems in Health Education. (3-0-3) Su. Provides information relative to the health problems of the nation, school, and community, including resources, people, agencies and materials.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5010. Current Health Problems. (3) S. An epidemiological investigation of the cause, nature, extent, and programming of current health problems.

5050. Occupational Cooperative Education. (3) On demand. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5060. Administration and Supervision of Occupational Education. (2) On demand. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5070. Seminar in Occupational Education. (3) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take 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 Industrial Arts. 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 Industrial Arts. 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

1510 (2510). European Foundations of the Modern World. (3-0-3). An introduction to the cultural intellectual, social and political developments in Europe from the Renaissance through Napoleon. (For majors and non-majors.)

1520 (2520). The World since 1814. (3-0-3) F, S. An introduction to ideas and forces, cultural and intellectual developments, major revolutions and world conflicts that shaped the 19th and 20th centuries. (For majors and non-majors.)

2010. History of the United States to 1877. (3-0-3) The colonial period; the independence movement; framing and adoption of the Constitution; growth of American nationality; Manifest Destiny; the Civil War and Reconstruction.

2020. History of the United States since 1877. (3-0-3) The new industrial society; agrarian movement; the United States as a world power through two world wars, depression and after.

3010. Constitutional History of the United States to 1865. (3-0-3) F. The constitutional history of the United States from the beginning to 1865.

3030. Social and Intellectual History of the United States to 1877. (3-0-3) F. The background and development of the social and intellectual history of the United States through the mid-Nineteenth Century.

3040. Social and Intellectual History of the United States since 1877. (3-0-3) S. The development of ideas and the way of life in later Nineteenth and Twentieth Centuries with emphasis on changes in thought resulting from two world wars.

3050. The Old South. (3-0-3) (Omitted 1975-76) A social history of the South before 1865 with emphasis on cultural deviations between North and South.

3060. The New South. (3-0-3) (Omitted 1975-76) A social history of the South since 1865, tracing the effects of the Civil War upon southern culture and developments in the Twentieth Century.

3070. History of the American Frontier, 1492-1790. (3-0-3) F. The discovery, settlement, and westward movement in the United States, emphasizing the effect of the frontier in American history.

3080. History of the American Frontier, the Trans-Appalachian Frontier, 1790-1890. (3-0-3) S. The occupation of the Mississippi Valley emphasizing the role of the frontier.

3090. Diplomatic History of the United States, 1776-1914. (3-0-3) (Omitted 1975-76) 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) Su. 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) F, 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.

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.

3260. Latin-American History since 1830. (3-0-3) (Omitted 1975-76) A survey of the republican period of Latin-American History.

3430. History of England, 1066-1688. (3-0-3) F. A survey of English History from the Norman conquest to the Glorious Revolution.

3440. History of England and the British Empire, 1688-Present. (3-0-3) S. A survey of English History from the Glorious Revolution to the present.

3500 (4500). Historical Methods. (1-4-3) F, S. Instruction in research techniques and the mechanics of historical composition.

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, S. Empire and culture in the Latin West and in the Greek East — law, education, science, art and literature, society.

3530. Islam to 1700. (3-0-3) (Omitted 1975-76) The conquests, law and customs, arts and sciences of the Moslem world, including Spain, Persia, the Turks, and the Sudan.

3550. Spanish History. (3-0-3) (Omitted 1975-76) Crucial Periods: Moorish and Reconquest Kingdoms 711-1492, Empre and Splendor 1942-1600, 20th Century.

3610. Czarist Russia. (3-0-3) Su. History of Russia to 1800.

3620. Czarist and Soviet Russia. (3-0-3) S. History of Russia from 1801 to the present.

3700. Europe in the Eighteenth Century. (3-0-3) F. A study of the rise of new powers with emphasis on the ideas of the Enlightenment.

3710. The French Revolution. (3-0-3) S. A study of the French Revolution and the concept of revolution in general.

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.

3750. Summer Studies in Europe. (Arr.-Arr.-3 or 6) Su (See Arts and Sciences 3750.) Prerequisite: Permission of the chairman of the department.

3990. Summer Study in Ireland. (0-0-6) Su. Independent research in history. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

4010. The American Colonies. (3-0-3) (Omitted 1975-76) Colonization of the area now included in the United States; the political, economic and social development of the American colonies to 1763.

4020. The American Revolution and Confederation. (3-0-3) F. The origins of the American Revolution; consequences of the revolution; problems of the critical period; American Constitutionalism.

4030. Making A Nation, 1787-1812. (3-0-3) S. The creation of the federal government and the rise of the American nation.

4040. Jackson and the Emergence of the New Politics. (3-0-3) (Omitted 1975-76) The reorganization of American politics and the rise of the "common man."

4050. Expansion and Disunion, 1840-1861. (3-0-3) F. A study of the expansionist period of the mid-Nineteenth Century and the background of the Civil War period.

4060. Civil War and Reconstruction. (3-0-3) S. A survey of the causes of the Civil War, the War, and its legacy.

4080. The Emergence of Industrial America. (3-0-3) (Omitted 1975-76) An intensive study of the transformation of the United States from a largely agrarian society to an urban and industrial power between the years 1870 and 1920.

4090. Recent United States History. (3-0-3) S. An intensive study of political, social and intellectual developments in the United States since World War I.

4120. American Urban History. (3-0-3) F. An intense study of American urban development.

4130. The History of Racism in the United States. (3-0-3) F. A survey of the racist ideology in the United States as directed at various minority groups.

4132. History of Religion in the United States. (3-0-3) (Omitted 1975-76) A study of the religious life of the American people and how it has interacted and influenced other dimensions of our national experience from the colonial days to the present.

4150. Readings on the American Character. (3-0-3) Su. Studies of the American Character and Mind, 1607 to the present.

4260. Problems in Latin-American History. (3-0-3) F. Major problems in the history of Latin-America.

4280. Latin-America and the United States. (3-0-3) S. 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.

4430. Stuart England. (3-0-3) (Omitted 1975-76) The struggles of political forces in Great Britain during the rise to world power.

4440. Hanoverian England. (3-0-3) S. A thorough study of England in the "Age of Reason," to which it contributed many ideas.

4450. Victorian England. (3-0-3) F. Great Britain and her Empire in the age of their greatest influence and extent.

4555. History of Modern Socialism. (3-0-3) F. The development of socialist theories and societies in modern times.

4640. Social and Intellectual History of Russia and the U.S.S.R., 1825-Present. (3-0-3) (Omitted 1975-76) A social and intellectual history of Russia from 1825 to the present.

4650. History of Nationalism: Patterns and Manifestations. (3-0-3) S. Comparative and analytical study of nationalism as a history making force in the modern world, Nineteenth and Twentieth Centuries.

4660. Eastern Europe from World War I to the Present. (3-0-3) F. Eastern Europe from World War I to the present.

4710. History of Germany, 1815-1918. (3-0-3) F. The rise of nationalism and liberalism, the 1848 Revolution, Bismarck and the emergence of the German Reich, World War I.

4720. Germany since 1919. (3-0-3) S. The Weimar Republic, National-Socialism, World War II, Post-war Germany.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

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 projects, 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.

5160. Seminar in American History. (3) Intensive study of special topics in American history, to be determined by the instructor.

5200. Seminar in Colonial American History (3) F. Research in topics dealing with Colonial American history.

5210. Seminar in Civil War and Reconstruction. (3) S. Intensive study in topics dealing with Civil War and Reconstruction.

5220. Seminar in Twentieth Century America. (3) F. Intensive study in topics dealing with Twentieth Century America.

5300. Seminar in Afro-American History. (3) S. Selected problems dealing with major intellectual currents and personalities in Afro-American history.

5310. Seminar in Social and Intellectual History. (3) Su. Research in topics dealing with social and intellectual history of the United States.

5320. Seminar in the American West. (3) F. An intensive study of western topics with emphasis on a seminar paper.

5330. Problems in the Diplomatic History of the United States. (3) (Omitted 1975-76) Intensive reading in selected problems of United States diplomacy.

5600. Seminar in European History. (3) Intensive study in special topics in European history, to be determined by the instructor.

5620. Seminar in the Middle Ages and the Renaissance. (3) (Omitted 1975-76) Study and research in selected Medieval and Renaissance topics.

5640. Seminary in Eighteenth Century Europe. (3) Su. Intensive study in topics dealing with Eighteenth Century Europe.

5650. Seminar in Nineteenth Century Europe. (3) S. Intensive study in topics dealing with Nineteenth Century Europe.

5660. Seminar in Twentieth Century Europe. (3) (Omitted 1975-76) Intensive study in topics dealing with Twentieth Century Europe.

5700. European Diplomacy, 1919-1945. (3) F. Study of interwar diplomacy with emphasis on Paris Peace Treaties, Rapallo, Locarno, Munich, Little Entente, Hitler Stalin Pact.

5720. Seminar in Russian Foreign Policy. (3) S. Selected topics in Russian foreign policy from 1814 to 1960.

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 5990.

5990. Independent Study. (1 to 6) Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

HOME ECONOMICS

UNDERGRADUATE COURSES

1120. Foods I. (1-2-2) A study of the guidelines important in developing desirable habits in providing the family food supply.

1150. Nutrition. (3-0-3) The principles of human nutrition and their application to everyday nutritional problems. For majors only (See Home Economics 3190 for others.)

2120. Foods II. (1-4-3) F, S. A study of the scientific principles and techniques underlying food preparation. Prerequisite: Home Economics 1120.

2231. Sociology of Clothing. (3-0-3) F. Significance of psychological reasons for clothing selection; political and economic trends affecting clothing.

2232. Historic Costume and Fashion Analysis. (3-0-3) F. A historic and current study of fashion; the production and distribution of fashion goods.

2244. Consumer Textile Products. (2-0-2) A study of family clothing and common household textile products as they relate to the consumer.

2245. Textiles. (3-0-3) S. An introduction to the study of fibers, methods of fabricating textiles, and finishes on the market. Prerequisite: Home Economics 2244.

2250. Household Equipment. (3-0-3) Selection, construction, operation and care of household equipment and their relation to the well-being of the family group.

2251. Household Physics. (1-4-3) S. Application of selected principles of electricity, heat, light, sound; physical and chemical characteristics of materials used in the home. Prerequisite: Home Economics 2250.

2270. Family Housing. (2-0-2) Arrangement and use of space; legal and financial considerations in renting, buying, or building; methods and materials of construction.

2800. Family Relationships. (3-0-3) Study of the family as the basic unit of society; personal relationships, and family interaction throughout the family life cycle.

2850. Child Development. (3-0-3) The physical, intellectual, social, and emotional development of the pre-school child.

3120. Experimental Foods. (1-4-3) S. Studies of physical and chemical reactions in food preparation when experimental procedures are applied. Prerequisite: Home Economics 2120.

3140. Family Food Management. (0-4-2) F, S. Application of scientific principles of menu construction, food buying, food preparation and table service with special emphasis on management. Prerequisite: Home Economics 2120.

3150. Advanced Nutrition. (2-0-2) F, S. Human nutrition principles applied to needs of individuals at various stages in the life span, with emphasis on nutrition education. Prerequisite: Home Economics 1150 or equivalent.

3190. Human Nutrition and Food Study. (2-0-2) F. Fundamentals of nutrition as applied to adults and children; principles involved in menu building, food buying and preparation. For non-majors only.

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 garmet fitting.

3237. Tailoring. (0-6-3) Su, 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. Prerequisite: Junior standing, permission of the Dean and acceptance of the student by a business or agency. May be taken not more than twice for credit.

3371. Field Experience. (Arr.-Arr.-3) An individually planned work experience in a business or agency appropriate to the student's area of specialization. Prerequisites: Junior standing, permission of the Dean of the School of Home Economics and acceptance of the student by a business or agency. May be taken not more than twice for credit.

3400. Methods of Teaching Home Economics. (3-0-3) F, S. The principles of teaching applied to home economics with particular emphasis on curriculum development.

3750. Independent Study in Home Economics. (Arr.-Arr.-3) Provides opportunity for in-depth study of home economics subjects for which there is not an established course. May be taken for credit only once. Prerequisite: Prior approval by the instructor and the Dean.

3820. The Family in Social Change. (2-0-2) 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.

3831. Women in Contemporary Society. (3-0-3) An interdisciplinary study of the emergence of women as a viable force in contemporary society. May be used toward social studies general education requirement.

3853. Practicum in Child Development. (1-4-3) Supervised observation and participation in the guidance of children in the Nursery School. Prerequisites: Home Economics 2850 or Elementary Education 2320 or permission of the instructor.

3920. Communications in Home Economics. (2-0-2) S. Techniques and skills in communicating home economics ideas, attitudes and subject matter with individuals and groups.

3925. Demonstration Techniques. (0-4-2) F. Development of desirable techniques and standards for use in business, teaching, and adult education.

4140. Institutional Food Management. (1-4-3) F. Practice in quantity food production, menu planning, recipe standardization, management of time motion and materials. Prerequisites: Home Economics 1150 or 3190 and 2120.

4150. Diet Therapy. (2-2-3) 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.

4237. Professional Tailoring Techniques. (0-4-2) S—even numbered years. Techniques used in altering and/or restyling women's and men's tailored garments. Prerequisite: Home Economics 3237.

4238. Principles of Pattern Design. (0-6-3) S. Principles of designing clothing and the translation of these designs into an original pattern. Prerequisite: Home Economics 3234, 3235 or permission of the instructor.

4280. Interior Design and Home Furnishings. (3-0-3) S. The selection, production, and arrangement of home furnishings at different income levels.

4300. Consumer Problems. (0-4-2) S. Current issues and problems confronting the contemporary family in safe-guarding and spending the family income. Prerequisite: Home Economics 3300 or equivalent.

4400. Senior Seminar. (3-0-3) F, S. Philosophy, current trends and research in home economics.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4840. The Disadvantaged Family. (3-0-3) 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, S. In-depth study of major crisis situations faced by families. Some emphasis on resources that offer help to families faced with crisis situations. Prerequisite: Home Economics 2800 or permission of the instructor.

4846. Aging and the Family. (3-0-3) S. Aging as a phase in the family developmental process and the consequent effect. Prerequisite: Home Economics 2800 or permission of the instructor.

4851. Infant Development. (2-0-2) F. Neonatal and postnatal development; trends of pediatric management for optimum health and welfare.

4854. Parent-Child Study. (3-0-3) S. Detailed study of parent-child interaction and techniques and methods for parent education; observation and participation included.

4859. Administration of Child Care Programs. (3-0-3) F. Organization, administration, curriculum, facilities, and parent education aspects of child care programs. Prerequisite: Home Economics 3853 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5050. Occupational Cooperative Education. (3) On demand. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5060. Administration and Supervision of Occupational Education. (2) On demand. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5070. Seminar in Occupational Education. (3) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take 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 Industrial Arts. 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 Industrial Arts. A student may take the course for credit in only one of the departments.

5120. Contemporary Developments in Foods. (3-0-3) 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.

5300. Curriculum Development in Consumer Economics. (3) S—even numbered years. Recent trends in consumer economics, consumer education programs and legislation affecting consumers.

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.

5410. Curriculum Development in Occupational Education. (2) S—odd numbered years. Occupational training aspects of home economics education as outlined in the Vocational Educational Act of 1963.

5450. Supervision in Home Economics. (2) F. The role of the supervising teacher; problems of orientation, guidance and evaluation.

5460. Current Issues and Trends. (3) S. A seminar dealing with the current and emerging problems, issues, trends, and developments in the field of home economics.

5470. Evaluation in Home Economics. (3) S. Development and critical evaluation of instruments designed to measure pupil growth.

5900. Research Methods in Home Economics (2) S—odd numbered years Research techniques in writing, interpreting, and evaluating home economics research.

5950. Thesis. (3 to 6) Individual direction of research thesis writing. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

INDUSTRIAL ARTS

UNDERGRADUATE COURSES

1013. Basic Engineering Drafting. (1-4-3) F, S. Graphics in industry; basic graphical projection, spatial relationships, classification, specifications and topographical graphics.

1043. Engineering Graphics. (1-4-3) F, S. Multiview, graphs, isometric and oblique projection; sectional views and dimensioning; concepts of descriptive geometry.

1063. Metals in Technology. (1-4-3) F, S. Processes and commercial application of metals with emphasis on design and manufacturing as influenced by fabricating procedures.

1113. Survey of Graphic Arts. (1-4-3) F, S. A survey of graphic arts and allied industries with study of surface image transfer.

1163. AC and DC Circuits. (2-2-3) F, S. Comprehensive study of alternating and direct current with practical laboratory application.

1213. Woods in Technology. (1-4-3) F, S. Function, care and use of woodworking tools, equipment, supplies and finishes.

1293. Industrial Crafts. (1-4-3) Development, concepts, and selected processes in various craft media; recreation, special education and consumer oriented.

1323. Power in Technology. (2-2-3) F, S. Internal combustion, reaction and pressure engines. Electrical and nuclear power, hydraulics, pneumatics.

1412. Orientation to Study of Industrial Education. (2-0-2) F. Origin, development organization and administration of general and occupational programs of industrial education.

2023. Fabrication Drafting Analysis. (2-2-3) F. Drafting techniques, methods and standards in industrial fabrication. Prerequisite: Industrial Arts 1013.

2052. Industrial Arts Design. (2-0-2) S. History, philosophy, and methodology in the concepts and essentials of industrial design.

2123. Photo Conversion Laboratory. (1-4-3) (Omitted 1975-76) Image assembly, photo conversion techniques. Black and white line and halftone, color separation. Prerequisite: Industrial Arts 1113.

2163. Basic Vacuum Tube Circuits. (2-2-3) F. Descriptive, graphic and equivalent circuit approach to the study of tubes as applied to rectification and amplification. Prerequisite: Industrial Arts 1163.

2173. Basic Semi-conductor Circuits. (2-2-3) (Omitted 1975-76) Semi-conductor devices; study of transistors, oscillators, detectors, etc. Prerequisite: Industrial Arts 1163.

2223. Basic Fabrication of Woods. (1-4-3) S. Power woodwork equipment and mass production. Prerequisite: Industrial Arts 1213.

2242. Primary Grade Industrial Arts. (1-2-2) Industrial arts activities as a teaching device in the primary grades. Emphasis on career, occupational awareness and special education preparation.

2252. Intermediate Grade Industrial Arts. (1-2-2) F, S. Industrial arts activities as orientation to industry (manufacturing, etc.) with laboratory experiences. (Consumer, career and special education emphasized.)

2353. Heat Engines. (3-0-3) S. Design and systems for control, air pollution characteristics, cooling, electricity, and lubrication of gasoline, diesel, gas turbine, jet and rocket engines. Prerequisite: Industrial Arts 1323.

3013. Architectural Planning and Analysis. (2-2-3) S. Cost factors in home construction, styles, planning and selection of materials.

3023. Architectural Drafting and Design. (1-4-3) F. Principles of house construction, construction details, working drawings, and specifications.

3033. Production Drafting and Design. (2-2-3) (Omitted 1975-76) Comprehensive study of uses and construction of production drawings in graphic communication. Prerequisite: Industrial Arts 1013.

3063. Metal Machining Processes. (1-4-3) F, S. Study of processes involved in lathe, mill, shaper, drills, surface grinder operations. Prerequisite: Industrial Arts 1063 or Industrial Technology 1013.

3072. Production Metal Processes. (0-4-2) (Omitted 1975-76) Multiple part production involving design, layout, shaping and fabrication. Prerequisite: Industrial Arts 3063.

3082. Advanced Metal Processes. (0-4-2) S. Comprehensive metal processes involving casting, grinding, chipless machine operation, numbered control and equipment selection. Prerequisite: Industrial Arts 3063.

3102. Forming and Fabricating Sheet Materials. (1-2-2) F. Design, layout, forming, shaping and fabrication of sheet materials. Prerequisite: Industrial Arts 1063.

3123. Image Transfer Laboratory. (1-4-3) F. Stripping, imposition, lock-up, image carriers. Special make-readies, offset, letterpress image transfer. Prerequisite: Industrial Arts 1113.

3133. Graphic Arts Technology. (3-0-3) (Omitted 1975-76) Production of books, magazines, newspapers with computer implications for type setting, quality control, inventory and personnel. Prerequisite: Industrial Arts 1113.

3223. Wood Turning and Finishing. (1-4-3) (Omitted 1975-76) Comprehensive study of wood finishing, origin, development and techniques of wood turning.

3233. Production Wood Technology. (1-4-3) F. Furniture and cabinet construction with power equipment. Prerequisite: Industrial Arts 2223.

3313. Electrical and Chemical Power. (3-0-3) F. Sources of electrical and chemical power, batteries, electromatic, generators. Prerequisites: Industrial Arts 1163 and 1323.

3322. Power Transmission. (2-0-2) (Omitted 1975-76) Comprehension of design and methods of transmitting power by hydraulics, pneumatics and mechanical unit. Prerequisite: Industrial Arts 1323.

3400. Methods of Teaching Industrial Arts. (3-0-3) F, S. Teaching techniques and the selection and organization of industrial material. Prerequisites: Four courses in industrial arts.

4052. Graphical Industrial Illustration. (0-4-2) F. In-depth study of graphical representation and statistical data. Prerequisite: Industrial Arts 2023.

4093. Welding Technology. (1-4-3) F. Study of gas and electric welding. Prerequisite: Industrial Arts 1063.

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.

4123. Image Transfer Theory. (3-0-3) F. Papers, inks, image transfer carriers, equipment systems, materials, commodities. Prerequisite: Industrial Arts 1113.

4212. Restoration of Antique Furniture. (1-2-2) S. Study of antique furniture and complete restoration.

4223. Mass Fabrication in Woods. (0-6-3) (Omitted 1975-76) In-depth study of mass production techniques in the wood industry. Prerequisites: Industrial Arts 2223 or 3233.

4313. Ignition and Fuel Systems. (2-2-3) (Omitted 1975-76) Comprehensive scientific study of total ignition and fuel systems concepts. Prerequisite: Industrial Arts 1323.

4470. Independent Study. (Arr.-Arr.-1-5) Technical investigation involving written research and laboratory experimentation. Prerequisite: Permission of the instructor.

4480. Independent Study. (Arr.-Arr.-1-5) Research oriented-technical investigations involving written research and laboratory experimentation. Prerequisite: Permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4763. Photo-conversion Theory. (3-0-3) (Omitted 1975-76) Image assembly, photo-conversion technique. Emphasis upon optics and chemistry of photo-conversion. Prerequisite: Industrial Arts 1113.

4902. Task Analysis and Course Outline. (2-0-2) F. Study of the techniques of analyzing occupations with specific components and developments of course outline for instruction program. Prerequisite: Industrial Arts 3400.

4932. Organization of Subject Matter. (Arr.-Arr.-2) Advanced work in preparation of instructional materials. Prerequisite: Industrial Arts 3400.

4953. Student Achievement and Program Evaluation. (3-0-3) S. Comprehensive study of techniques of evaluation and criteria for program evaluation. Prerequisite: Industrial Arts 3400.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5050. Occupational Cooperative Education. (3) On demand. A study of part-time, on-the-job education utilizing the resources of the community and the school. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5060. Administration and Supervision of Occupational Education. (2) On demand. To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take the course for credit in only one of the departments.

5070. Seminar in Occupational Education. (3) On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Industrial Arts. A student may take 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 Industrial Arts. 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 Industrial Arts. A student may take the course for credit in only one of the departments.

5503. Graphic Arts in a Changing Culture. (3) (Omitted 1975-76) Graphic arts from an art to a technology — incunabula period.

5652. History and Philosophy of Industrial Education. (2) F. Sociological principles, theories, and beliefs which have contributed to present educational theory.

5722. Innovations in Industrial Education. (2) S. Comprehensive investigation of current experimental and established programs.

5803. Facility Planning in Industrial Arts. (3) F. Study facilities and equipment needs for teaching industrial arts, opportunity is provided for planning new laboratories and redesigning established laboratories.

5900. Introduction to Research in Industrial Education. (2) Study of research techniques and a research project — including written report and laboratory experimentation.

5950. Thesis. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) Preparation of instructional display panels and devices. Slides, transparencies, etc., research papers. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

INDUSTRIAL TECHNOLOGY

UNDERGRADUATE COURSES

1013. Industrial Materials and Processes. (3-0-3) F. Sources, extra-active processes, properties, manufacturing methods, appropriate utilization, and environmental ecological impact of industrial materials.

3003. Industrial Mechanics. (3-0-3) F. Mechanics of machinery, including gear, belt, cam hydraulic, and pneumatic power transmitting systems. Prerequisites: Physics 1350 and Mathematics 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 Arts 1013 or 1043; Mathematics 1340.

3163. Communications Circuits and Systems. (2-2-3) S. Electronic power supplies, audio amplifiers, transmitters and receivers. Prerequisites: Industrial Arts 2163 and/or 2173.

3202 (3201.) Surveying. (0-4-2) (Omitted 1975-76) Field work in location, elevation, and land surveys. Prerequisites: Industrial Arts 1013 or 1043; 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.

4002. Materials Testing. (0-4-2) S. Applied analysis of mechanical and physical properties of industrial materials. Prerequisites: Industrial Arts 3063; Industrial Technology 1013; 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.

4163. Industrial Electronics. (1-4-3) (Omitted 1975-76) Industrial control of processes, materials, machines, energy and information. Prerequisites: Industrial Technology 3163 or Physics 3150.

4172. Electronic Instrumentation. (1-2-2) F. Application of basic electronic instrumentation devices, transducers and elements in measuring temperature, level, flow, viscosity, humidity, pH and displacement. Prerequisite: Industrial Arts 1163.

4222. Principles of Cost Estimating. (2-0-2) S. Procedures in estimating material, labor and fabrication costs. Prerequisite: Junior standing.

4243. Construction Practices. (3-0-3) S. Methods, materials, and procedures in construction management. Contracting, personnel management, specification procedure, fabrication techniques. Prerequisite: Industrial Arts 3023.

4602. Physical Metallurgy. (0-4-2) (Omitted 1975-76) Methods of altering, controlling and determining physical properties of metals. Prerequisite: Industrial Arts 3063.

4643. Metal Casting Processes. (1-4-3) S. Control and prevention of casting defects, sand conditioning, melting and pouring techniques. Prerequisite: Junior standing.

INSTRUCTIONAL MEDIA

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4780. Studies in Education. (3-0-3) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4790. Studies in Education. (2-0-2) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4800. Studies in Education. (1-0-1) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4870. Introduction to Instructional Media. (3-0-3) Theory and principles for use of instructional media.

4880. Preparation and Use of Instructional Materials. (1-4-3) F, S. Production of locally prepared instructional materials. Materials fee.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5200. Television in Education. (3) Su, F. Methods and techniques of television production, direction, and operation covering open and closed-circuit television.

5210. Instructional Systems. (3) F. Study and development of instructional systems in the teaching-learning situation.

5220. Photography in Instructional Media. (3) Photographic techniques for making materials for classroom instruction. Emphasis upon prints, color slides and large transparencies. Materials fee.

5230. Organization and Supervision of Instructional Media Programs. (3) 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.

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. Prerequisite: Instructional Media 4870, 5210, or permission of the chairman of the department.

5900. Introduction to Research in Instructional Media. (2) On demand. Provides experience in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Instructional Media 5210, 5310, or permission of the chairman of the department.

5950. Thesis and Research. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) On demand. Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

6100. Motion Picture Photography in Instructional Media. (4). S. Motion picture photography taught through study of commercially produced educational films and individual production of a short motion picture film. Materials fee. Prerequisite: Instructional Media 5220.

6110, 6120. Field Experience. (4 each course) 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.

6310. Program and Script Writing for Instructional Television. (3) F. Designed to provide experience in planning and writing for instructional television. Prerequisite: Instructional Media 5200.

JOURNALISM

UNDERGRADUATE COURSES

2100. Introduction to Journalism. (3-0-3) Historical development of American mass media, with emphasis on the newspaper; the mechanics, the craft, and the ethics of journalism.

2101. Newswriting I. (2-2-3) Principles of gathering and writing news; laboratory experiences with basic news stories.

2102. Newswriting II. (2-2-3) F, S. Advanced techniques of reporting; laboratory experiences with specialized news stories. Prerequisite: Journalism 2101.

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 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. Advanced Reporting (3-0-3) F, S. Interpretative reporting, with emphasis on communication law. Prerequisite: Journalism 2101.

3102. Article Writing. (2-0-2) Newspaper-magazine features, articles. Study of free-lance writing.

4100. Internship (Commercial). (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. 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) S. The objectives, methods, materials, and content with an emphasis upon correlation. Prerequisites: Junior standing; Junior High School Education 3110.

3140. Teaching Mathematics and Science in the Junior High School. (3-1-3) S. The scope, sequence, and interrelationship of the mathematics and science curricula, including methods and materials. Prerequisites: Junior standing; Junior High School Education 3110.

4280. Teaching Reading in the Secondary School. (2-2-3) F, S. Techniques for providing appropriate reading instruction in proper sequence for students in grades seven through twelve. Prerequisite: Eight semester hours in education and psychology.

4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4770. The Junior High School. (3-0-3) Su, even numbered years. Study of historical development, current practices, policies, and trends in junior high school education. Prerequisites: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5270. Reading Instruction in the Junior and Senior High School. (3-0-3) 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 major. Junior standing is a prerequisite for beginning to

take 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.

3200. The School Library Materials Center. (3-0-3) The services and administration of the school library materials center.

3300. Literature for Children. (3-0-3) Types of resources best suited to children of grades 1 through 6. Reading and evaluation of materials.

3320. Literature for Young People. (3-0-3) Types of resources best suited for adolescents. Reading and evaluation of materials.

4490. Observation and Practice. (2-8-3) Practical experience in library work with special emphasis on service to the public. Two seminars per week. Prerequisites: At least four library science courses including 4750, 4760, and 4770.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Reference Materials and Services. (3-0-3) Introduction to general and specialized sources of information: their content, evaluation, and use.

4760. Selection of Library Materials. (3-0-3) Principles and practices related to selecting and acquiring all types of library materials.

4770. Organization of Library Materials. (3-0-3) Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other materials.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5100. History of Libraries. (3) Su, S. Study of the development of the library as an institution.

5200. Library Administration. (3) F. Principles of administration with practical application to the management of libraries. Prerequisites: Library Science 4750, 4760, 4770.

5220. Special Libraries. (3) 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, S. A critical investigation of contemporary library materials and services designed for children. Includes national and international developments.

5320. Studies in Adolescent and Young Adult Materials and Services. (3-0-3) Su, F. Survey of library materials designed for adolescents and young adults. Includes analysis of materials for reading guidance and discussion of national and international developments.

5600. Organization of Information and Library Materials. (3) Su, S. Advanced study of information systems and library catalogs: history, preparation, evaluation, management and use. Prerequisites: Library Science 4750, 4770.

5710. Social Science Literature. (3) 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.

3000. Seminar in Environmental Biology. (0-2-1) A discussion of contemporary problems in environmental biology and their solutions. Such topics as air pollution, waste reclamation will be discussed. Prerequisites: Nine semester hours in life science, botany and/or zoology.

3010. Environmental Biology. (3-0-3) A study of the components of the physical and biological environment, the Ecology of Mankind, man's effect on the environment, the effect of the environment upon man, current problems and their possible solutions. Prerequisite: Life Science 1000.

3400. Methods of Teaching Biological Science in High School. (2-2-3) A study of teaching techniques including the collection and use of materials for demonstrations and laboratory experiments.

4080. Internship in Environmental Biology. (Arr.-Arr.-12) Twelve semester hours required for major in Environmental Biology. This course to be taken Pass-Fail, but not to count against the maximum of 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 Botany 3361 or Zoology 3200. May be substituted for a three-semester-hour elective in botany or zoology in completing the requirements for a botany or zoology major.

MANAGEMENT

UNDERGRADUATE COURSES

1420. Business in Society. (3-0-3) F,S. The business firm in the social and legal framework of society, its responsibility and contributions to society.

2010. Business Communications. (3-0-3) Practice in formulation and communication of business information, oral and written. Prerequisite: Business Education 1110 or equivalent.

2300. Data Processing for Business. (3-0-3) Modern information processing systems and equipment; includes electronic computers and punched card systems.

2310. Computer Programming for Business. (3-0-3) Analysis of several high-level programming languages and software systems. Prerequisite: Management 2300 or Mathematics 2310 or permission of the instructor.

3010. Principles of Management. (3-0-3) Organization fundamentals: objectives, functions, structure and operational procedure, interpersonal relationships, control and motivation systems, and communications.

3310. Data Processing Systems for Business. (3-0-3) The structure and development of manual, mechanical, and electronic information handling systems. Prerequisite: Management 2310.

3320. Computer File Organization and Management Methods. (3-0-3) The universal data base used with modern computer systems. Includes file organization, maintenance, retrieval, and security. Prerequisite: Management 2310.

3330. Real Time Business Systems. (3-0-3) F. A study of the process of integrating the computer based, file-oriented business system into its operational environment. Prerequisite: Management 3320.

3450. Personnel Management. (3-0-3) Objectives, functions, and organization of a typical personnel program. Prerequisite: Management 3010 or a major in recreation.

3460. Business Law. (3-0-3) Introduction to law; contracts; agency and employment; commercial paper; personal property and bailments.

3470. Business Law. (3-0-3) Sales; partnership and corporations; real property and leases; insurance; security devices; bankruptcy; wills and estates. Prerequisite: Management 3460.

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 affects on other environmental and social problems. Prerequisites: Accountancy 2020, Management 3010, Economics 2802, Marketing 3470.

3700. Principles of Finance. (3-0-3) Survey of the private and public sector of finance. Discussion of basic principles for financing business. Study of financial institutions. Prerequisite: Economics 2802.

3710. Business Financial Management. (3-0-3) Methods of financing large and small corporations. The corporation, investor and society considered. Prerequisites: Management 3700 and Accountancy 2020.

3720. Investments. (3-0-3) F. Study of the mechanics of investment analysis. Selection of securities for portfolios with emphasis on personal investing. Prerequisites: Management 3700 and Accountancy 2020.

3800. Introduction to Operations Research. (3-0-3) F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Same as Accountancy 3800. Prerequisite: Mathematics 2110 or 2120. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.

3810. Business Statistics I. (3-0-3) Provides a working knowledge of the statistical tools used in analyzing business problems. Prerequisite: Mathematics 2110, or permission of the instructor.

3820. Business Statistics II. (3-0-3) S. Extension of the range of topics covered in Business Statistics I. Prerequisite: Management 3810.

3830. Business Report Writing. (3-0-3) The organization and preparation of research-oriented reports used in business and technical communication. Prerequisite: Junior standing or permission of chairman of the department.

3900. Risk and Insurance. (3-0-3) S. Risks to which man and property are subject, including life, property, and liability insurance. Prerequisites: Management 3700 and 3810 or permission of the instructor.

4200. Security Analysis and Portfolio Management. (3-0-3) S. A case problem approach — including investment policies, practices and analysis of direct and indirect investments. Prerequisites: Management 3710, 3720, 3810.

4300. Data Processing Laboratory. (Arr.-Arr.-3) Processing of information by using punched card equipment and the computer. Individual projects. Prerequisite: Management 2300.

4340. Operations Management. (3-0-3) F. Management of manufacturing enterprises. Includes operations research techniques, plant locations, layout, and services. Prerequisites: Management 3010, 3810 or permission of the instructor.

4350. Methods Analysis. (3-0-3) S. Study of the procedure and techniques involved in methods analysis. Prerequisite: Management 4340 or permission of the instructor.

4360. Managerial Decision Making. (3-0-3) A study of administrative processes under conditions of uncertainty, integrating analysis and policy determination. Prerequisite: Management 3010, 3810, and senior standing.

4370. Job Evaluation. (3-0-3) S. Analysis of the methods and techniques used in evaluating jobs. Prerequisites: Management 3010 and 3450.

4380. Labor Law. (3-0-3) F. An analysis of the principles of American labor law; administrative board decisions; major state and federal legislation. Prerequisite: Management 3470 or permission of the instructor.

4390. Real Estate. (3-0-3) S. A study of theory and practice in real estate, with social and economic implications. Prerequisite: Management 3470.

4450. Collective Bargaining. (3-0-3) F, S. Deals with the role played by management and labor representatives in the collective bargaining process. Prerequisites: Management 3010, 3460, 4380 or permission of instructor.

4610. Management of Data Processing. (3-0-3) S. Planning, controlling, evaluating, budgeting and protecting the data processing functions, equipment, and personnel. Prerequisite: Management 3310 or permission of the instructor.

4730. Internship in Management. (Arr.-Arr.-3) Employment experience in a phase of management for one semester in a firm approved by the chairman of the department. Prerequisites: Permission of the chairman of the department and acceptance of the student by a business firm on the basis of the student's application.

4740. Independent Study. (Arr.-Arr.-3) Individual study programs under direction of the head of the department. Prerequisites: Senior standing and permission of chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Case Problems in Business Law. (3-0-3) Su, S. Case problems approach to the various topics in the field of business law. Prerequisite: Management 3470 or the equivalent.

4800. Budgeting. (3-0-3) F. Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Same as Accountancy 4800. Prerequisite: Accountancy 2020. Offered in Accounting and Management. A student may take the course for credit in only one of the departments.

4830. Current Problems in Finance. (3-0-3) F, S. A survey of current literature in finance and business with a seminar approach in discussing present problems, topics, and developments. Prerequisite: Management 3700.

4840. Commercial Bank Management. (3-0-3) F, S. The organization and management of commercial banks; function, departments, personnel, policies. Prerequisites: Accountancy 2010 and Economics 2802.

4900. CDP Problems. (3-0-3) F. Study and review of the areas covered by the Certificate in Data Processing (CDP) Examination — equipment, programming and software, principles of management, quantitative methods, and systems analysis and design. Prerequisite: Permission of the instructor.

4910. Enterprise Development. (4-0-4) 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. Prerequisities: 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.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5160. Contemporary Issues in Management. (3) Su. Current problems in the areas of management. For teachers of business subjects having little or no management background.

5310. Communication Analysis. (3) S. Analysis of the functions, planning, psychology, and the organization of selected types of written and oral business communications.

5320. Management Information Systems. (3) F. The accumulation, processing, analysis, and utilization of data pertinent to the operation of the business firm. Prerequisite: Management 2300.

5330. Operations Management. (3) F. An examination of operating problems from the standpoint of the production executive. Prerequisite: Management 3010.

5340. Foundations of Business Enterprise. (3) S. The historical development of business enterprises — the social and economic role of the executive. The evolution of the business organizations and practices and their relationship to society.

5630. Manpower Management. (3) F. A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management.

5640. Financial Management. (3) F. A framework for determining efficient allocation of resources within the firm. Methods of economic analysis to relate the functional discipline of managerial finance — techniques for forecasting financial requirements under uncertainty, problems of income determination, long-term commitments to uncertain payoff vectors, internal and external capital rationing, and problems of identifying capital supply functions. Prerequisite: Management 3700; 3710 also suggested.

5820. Seminar in Organizational Theory. (3) S. Value systems underlying management thought. The behavioral sciences as they pertain to organization behavior and practice. Prerequisites: Management 3010, and admission to candidacy.

5830. Seminar in Business Finance. (3) S. A macro approach; the student is responsible for integrating macro economic and financial information. Includes interviewing a financial decision maker. Prerequisite: Management 5640.

5890. Administrative Policy. (3) S. Top management functioning. Emphasis is on integration of functions. Case studies, special reports, and seminar discussions of top management problems. Prerequisites: At least twelve semester hours of MBA graduate courses and admission to candidacy.

5900. Business Research Methods. (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. Offered in Accountancy, Management, and Marketing. May be taken for credit in only one of the departments.

5950. Thesis. (3 to 6) Developing the method of attack and executing a formal research study in the area of management concern. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (3 to 6) F, S. The study of a problem in the administrative management area in cooperation with an assigned instructor in a general or specific area. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MARKETING

UNDERGRADUATE COURSES

3470. Marketing in Business and Society. (3-0-3) Marketing channels; marketing functions and institutions; methods in marketing agricultural products, raw materials and manufactured goods. Prerequisite: Economics 2802.

3480. Sales Communications. (3-0-3) Personal marketing communications; assessing buyers' needs, persuasion, and student role-playing in simulated sales presentations.

3490. Marketing Middlemen and Channels. (3-0-3) Analysis of the roles of middlemen in retail, industrial and other wholesale levels in the marketing channel system, with special attention to the management of channel flows of goods, ownership, and financing. Prerequisites: Marketing 3470 and Accountancy 2010.

3500. Principles of Advertising. (3-0-3) Social and economic aspects of advertising; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; slogans; campaigns. Prerequisite: Marketing 3470 or permission of instructor.

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 judgements and life styles on the present as well as changing methods of marketing energy. Prerequisite: Management 3550.

3720. The Behavior of Buying. (3-0-3) The buying process at the levels of ultimate consumer, intermediate reseller and industrial user; psychological, sociological and economic foundations of buying behavior. Prerequisite: Marketing 3470.

3800. Introduction to Operations Research. (3-0-3) F. An introduction and survey of the quantitative approaches to managerial decision making under conditions of certainty, risk, uncertainty, and competition. Prerequisite: Mathematics 2110 or 2120. Offered in Accountancy, Management, and Marketing. A student may take the course for credit in only one of the departments.

4490. International Marketing. (3-0-3) F. An introduction to foreign trade with emphasis on international marketing institutions, cooperation, and technical features of overseas operations. Prerequisite: Marketing 3470.

4730. Internship in Marketing. (Arr.-Arr.-1-6) Employment experience in some phase of marketing for one semester, in a firm approved by the chairman of the department. Prerequisite: Permission of the chairman of the department.

4740. Independent Study. (Arr.-Arr.-1-6) Intensive investigation of a particular area in marketing, determined in joint consultation with appropriate instructor. Prerequisites: Approval by the chairman of the department and cooperating instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. Physical Distribution Management. (3-0-3) S. The study of integrated distribution systems, reflecting the transportation principles, economic analysis and marketing management considerations required to effect physical flows of goods from production points through market channel networks to purchaser destinations. Prerequisites: Marketing 3470 and Management 3010.

4780. Advertising Management. (3-0-3) F, S. Application of the management functions to advertising. Prerequisites: Management 3010 and Marketing 3500.

4860. Marketing Research. (3-0-3) Nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report and follow-up. Problems. Prerequisites: Marketing 3470 and Management 3810 or its equivalent.

4870. Marketing Management Strategy. (3-0-3) Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Prerequisites: Accountancy 2020, Marketing 3470 and Management 3010.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5130. Contemporary Issues in Marketing. (3) Su. Current issues involved in delivery of a standard of living. For teachers of business subjects having little or no marketing background.

5350. Product Development and Brand Management. (3) S. A study of the process of product planning and development as related to venture management. Prerequisite: Marketing 3470.

5610. Marketing Management. (3) F. The techniques of management as applied to the functional areas of marketing. Both quantitative and behavioral tools are used. Prerequisite: Marketing 3470.

5650. Promotion Management. (3) S. A study of consumer behavior and demand stimulation with emphasis in verbal and non-verbal communication theory. Prerequisite: Marketing 3470.

5810. Seminar in Marketing Thought. (3) S. The development of marketing theory. The progress of the discipline of marketing toward becoming a science is examined. Past and present writings of marketing scholars are studied and reported. Prerequisite: Marketing 3470.

5900. Business Research Methods. (2) F. Business research methodology including the meanings of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Offered in Accountancy, Management, and Marketing. May be taken for credit in only one of the departments.

5950. Thesis. (3 to 6) The development of the method of attack and the execution of a formal research study in the area of marketing. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) F, S. The study of a problem within the marketing business area in cooperation with an assigned instructor in a general or specific area of marketing. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MATHEMATICS

In planning student programs it is important to check the course prerequisites including placement exam requirements as listed with the course descriptions below. "High school mathematics" as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics", "consumer mathematics", "shop mathematics", etc.

A tutoring service is available in the Department of Mathematics throughout the year for students who may need assistance in the undergraduate courses.

Courses in the Department of Mathematics are designed to serve the following purposes: (1) to contribute to the development of an informed citizenry; (2) to provide specific skills and knowledge of the discipline for those who plan to pursue careers in teaching mathematics or industry; and (3) to provide the background for graduate study.

For mathematics majors college-level work presupposes at least two years of algebra, one year of geometry, and one-half year of trigonometry in high school. Students without trigonometry will generally begin with Mathematics 1320, provided they have had at least one year of algebra and one year of geometry. However, such students are encouraged to take the Department of Mathematics placement test. Students with a background of three or more units of high school mathematics including trigonometry are required to take the Department of Mathematics placement test before enrolling in Mathematics 1320.

UNDERGRADUATE COURSES

1220. Numerals and Numbers I. (3-0-3) F, S. A study of the real number system and related topics. Restricted to students in the curriculum for elementary school teachers. Placement by examination. Credit is not given for both Mathematics 1220 and 2220.

1250. Elementary Mathematics and Applications. (4-0-4) Topics to be covered will include the metric system, mathematics of finance, elementary probability, the design and analysis of models, using descriptive statistics.

1290. Algebra. (5-0-5) Fundamental concepts of algebra. Credit is not given for both Mathematics 1290 and 1300.

1300. Algebra. (3-0-3) Concepts taught in Mathematics 1290 from a more advanced point of view. Credit is not given for both Mathematics 1290 and 1300. Prerequisite: Satisfactory score on placement exam.

1310. College Trigonometry. (2-0-2) Basic concepts of right triangle trigonometry with applications. Prerequisite: Two years of high school mathematics.

1320. Elementary Functions and Analytic Geometry. (5-0-5) 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. Prerequisites: Mathematics 1290 or 1300 or satisfactory placement score.

2120. Finite Mathematics. (3-0-3) Elementary set theory, probability, and linear algebra. Applications to business and social science. Prerequisites: Mathematics 1290 or 1300 or satisfactory placement score.

2220. Numerals and Numbers II. (2-0-2) F, S. A study of the real number system and related topics. Restricted to students in the curriculum for elementary or junior high school teachers. Placement by examination. Credit is not given for both Mathematics 2220 and 1220.

2310. Computer Programming. (2-2-3) The application of procedure-oriented computer languages (FORTRAN, SNOBOL) to both numeric and non-numeric algorithms. Not open to freshmen.

2320. Introduction to Computer Programming. (1-0-1) F, 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 polynominals 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) The study of linear algebra with special emphasis on applications. Prerequisite: Mathematics 1300 or its equivalent.

2670. Computational Techniques. (2-0-2) F. Computational models and problem solving, programming techniques. Prerequisite: Mathematics 2310.

3190. Algebra and Geometry I. (2-2-3) The study, organization and structure of algebraic and geometric models. Restricted to students in the curriculum for elementary or junior high school teachers. Prerequisite: Mathematics 1220 or 2220 or by placement examination.

3200. Teaching Elementary Mathematics I. (1-2-2) Methods and materials for teaching mathe-

matics in the elementary school with a special emphasis on grades K-3. Open only to prospective elementary school teachers. Prerequisites: Mathematics 3190, Elementary Education 2320 or concurrently with Elementary Education 3240. Credit cannot be received for both 3200 and 3210.

3210. Teaching Elementary Mathematics II. (1-2-2) Methods and materials for teaching mathematics in the elementary school with a special emphasis on grades 4-6. Open only to prospective elementary school teachers. Prerequisites: Mathematics 3190, Elementary Education 2320 or concurrently with Elementary Education 3240. Credit cannot be received for both 3200 and 3210.

3271, 3272. College Geometry. (3-0-3 each course) F, 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) Methods and materials for teaching mathematics in grades 7-12. Prerequisites: Educational Psychology 3320 and Mathematics 2352, 3271, 3531; or permission of the chairman of the department.

3501. Differential Equations I. (3-0-3) F, S. Formal solutions of ordinary differential equations: a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications. Prerequisite: Mathematics 2353.

3502. Differential Equations II. (3-0-3) S. Systems of differential equations, series solutions, approximations to solutions. Laplace Transformations, partial differential equations, boundary value problems. Prerequisite: Mathematics 3501.

3531, 3532. Abstract Algebra I and II. (4-0-4 each course) F, 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, instruction 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 combinatories. Prerequisities: 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: Permission of the Chairman of the Department of Mathematics and acceptance of the student by a business firm on the basis of the student's application.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4760. Linear Algebra. (3-0-3) S. 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, Su. Calculus of several variables. Line and surface Integrals. Vector and Tensor Analysis. Fourier Series. Prerequisite: Mathematics 2353.

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 2353.

4820. Algebra and Geometry II. (2-2-3) F, Su. The study of algebraic structure and informal geometry in elementary mathematics. Prerequisites: Enrollment in the curriculum for elementary teachers. Mathematics 3190; or permission of the chairman of the department.

4850. New Units in High School Mathematics. (3-0-3) S, Su. Investigation of basic mathematical concepts in selected new programs in high school mathematics. Prerequisites: Mathematics 2352, 2550, 3271, 3400, 3531; concurrent enrollment in Mathematics 3400 is permitted by permission of the instructor.

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.)

5040. Digital Computer Techniques. (3) Su. Programming techniques in the application of procedure-oriented languages to numeric and non-numeric algorithms. Not open to student with credit in Mathematics 2310 or its equivalent.

5050. Numerical Analysis. (4) S. Rounding errors, difference equations, solutions of equations and systems of equations, interpolations, numerical differentiation. Prerequisites: Mathematics 2310 or 5040; and Mathematics 3500.

5080. Structure of Programming Languages. (3) S. The structure and syntax of ALGOL. Selected topics in computer science. Prerequisite: Mathematics 2310 or 5040 or permission of the chairman of the department.

5101, 5102. Abstract Algebra. (4 each course) 5101-F, 5102-S. Groups, Rings, Fields, Galois Theory. Prerequisite: Mathematics 3532 or permission of the chairman of the department. To be taken in sequence.

5151. Probability. (4) F. Elementary and general probability spaces. Random variables, multivariate distributions and the algebra of expectations. Prerequisite: Mathematics 3701.

5152. Statistics. (4) S. Random sampling, the law of large numbers, confidence intervals, regression, sampling from a normal population and testing hypotheses. Prerequisite: Mathematics 5151 or permission of the chairman of the department.

5200. Higher Geometry. (4) Su. A selection of topics from transformation geometries. Prerequisite: Mathematics 3532 or permission of the chairman of the department.

5220. Topology. (4) F. Metric spaces. Topological spaces. Connectedness. Compactness. Prerequisite: Mathematics 4861 or permission of the chairman of the department.

5225. Topics in Geometry and Topology. (4) (Omitted 1975-76) Topics selected from advanced areas in geometry and topology including homology theory; classical theory of curves and surfaces; non-Euclidean geometries. Prerequisite: Permission of the chairman of the department. May be repeated for credit.

5301, 5302. Real Variables. (4 each course) 5301-S, 5302-Su. Set theory. Cardinal numbers. Real numbers. Measure theory. Lebesque theory. Prerequisite: Mathematics 4862 or permission of the chairman of the department. To be taken in sequence.

5330. Complex Variables. (4) F. Complex numbers, analytic functions, conformal mappings, complex integrations. Prerequisite: Mathematics 4862 or permission of the chairman of the department.

5335. Topics in Analysis. (4) (Omitted 1975-76) 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.

5410. Problems in Teaching Mathematics in Grades 7-9. (3) F. The techniques, methods, and materials used in teaching mathematics in grades seven, eight and nine. Prerequisite: Experience teaching in grades six through twelve or permission of the chairman of the department.

5530. Statistical and Computational Techniques. (3) Su. Statistical methods including tests of hypotheses. Computation techniques and computer programming using FORTRAN. Not open to students with a major in mathematics.

5700. Problems in Teaching Mathematics in Grades 10-12. (3) Su, S. Study of problems which arise in teaching secondary mathematics, research in mathematics education; assigned reading reports. Prerequisite: Experience teaching in grades six through twelve or permission of the chairman of the department. May be repeated once for credit.

5950. Thesis. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MUSIC

AUDITIONS

All new undergraduate students planning to elect a major in music are required to demonstrate sufficient ability in a performing area either in person or by tape recording in advance of enrollment 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.

STUDIES IN PERFORMANCE AND COMPOSITION

In the major applied field, at least several years of study prior to college entrance are

required. Private and class instruction are offered in all areas of performance, including composition (cf. listings). In the case of organ, prior study is sufficient for acceptance.

Applied music courses yield variable credit, depending upon the curriculum elected by the student with a major in music. For the major in music education one semester hour of credit of secondary applied music shall be given for one hour of individual and/or class instruction per week and one-half hour of daily practice; for the primary applied in the music education curriculum two semester hours of credit shall be given for one hour of individual and/or class instruction per week and one hour of daily practice; or one semester hour of credit shall be given for one-half hour of individual and/or class instruction per week and one hour of daily practice. Generally students are expected to complete the minimum requirement over a period of seven semesters. For other majors in other Bachelor of Music degree curricula the student may register for up to four semester hours of credit for one hour of individual and/or class instruction and two hours of daily practice. Courses in composition are also similar in plan.

In a summer term the normal applied credit for a given program should be reduced by one-half, except cases where the normal applied credit is one semester hour. Additional applied credit in the summer term may be taken only with the permission of the principal applied instructor.

Courses in 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. At the conclusion of the fourth semester of applied music, all students will be required to pass a junior standing examination, after which they will be considered juniors in applied music and may present a junior or senior recital.

Course credit in applied music taken by music majors and minors beyond four semesters may be counted for upper division credit with the approval of the chairman of the department.

CREDIT ORGANIZATIONS IN MUSIC

Elementary education majors may elect a maximum of three semester hours of credit in choral ensembles. Other non-music majors may earn no more than four semester hours of credit toward graduation in chorus, orchestra, or band; however, music majors and minors may apply a maximum of six semester hours of credit toward graduation for such ensemble courses taken.

Courses in ensemble taken by music majors and minors beyond four semesters may be counted for upper division credit with the approval of the chairman of the department.

No more than two semester hours of credit may be earned in a single semester regardless of the number of organizations in which the student participates.

The music major is encouraged to participate in at least one ensemble during each semester of residence.

CECILIAN SINGERS

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

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.

*May be repeated for credit until requirements are met. A student may receive one, two, or four semester hours of credit depending on the degree program, i.e., B.S. in Ed., Secondary Applied—1 hr.; B.M., Music Education Option—1 or 2 hrs.; B.M., Performance Option—4 hrs.

Concert Band

The concert band functions as a musical unit for study and performances of all types of band literature. Membership is open to all students.

Concert Choir

A select ensemble of approximately 60 men and women. Open to all students. A wide variety of choral literature is performed.

Marching Band

The marching band performs during the football season for all home games and usually takes one out-of-town trip. Membership is open to all students.

Mixed Chorus

Open to all qualified singers. The Chorus studies and performs many types of choral literature. Some opportunity is provided for student conductors to improve their techniques with this ensemble.

Oratorio Chorus

One day a week the Concert Choir and Mixed Chorus form the nucleus of the Oratorio Chorus for the study and performance of cantatas, oratorios, Masses, and other major choral works.

Pep Bands

Three pep bands perform alternately at all home basketball games. Personnel are selected from the Symphonic Winds and Concert Band.

Stage Band

The stage band offers an opportunity to play the finest in stage band music. Rehearsals are held two evenings each week; various programs are performed throughout the year. Membership is open to all students. Audition is required.

String Orchestra

An organization for string players interested in the study and public performance of literature for the string orchestra. Membership is open to qualified players.

Symphony Orchestra

The orchestra is open to all student string, wind, and percussion players. Mature performers from within the university and community are eligible for membership. The orchestra presents regular programs on campus of representative works from symphonic literature. In addition, the orchestra participates in certain choral and operatic productions. Membership is selected by audition. Many instruments are available for use of the personnel.

Symphonic Winds

A select 40 piece wind ensemble organized for the study and performance of the highest quality band literature. Membership is selected by audition.

RECITALS

All students except freshmen are required to appear (each year) in the series of student recitals in order to gain experience in musical performance.

Majors in the general music option and instrumental principals in the instrumental option must achieve junior standing in their principals applied area with a junior and senior recital being optional. Vocal and keyboard principals in the music education major are required to present junior and senior recitals.

Students with an option in performance in the Bachelor of Music degree program shall present a half recital in the junior year and a full recital in the senior year. Further, the performance major shall be required to perform a minimum of four times on student recitals in addition to presenting a junior and senior recital. The student recital requirement must be completed before the semester in which the senior recital is given. Students with a major in either Music Theory-Composition or Music History-Literature shall present appropriate projects in lieu of the junior and senior recitals.

MUSIC

UNDERGRADUATE COURSES

Auditions are required for initial placement in the following music courses: 0010-0070.

0010.* **Voice. (Arr.-Arr.-1 or 2 or 4)**

0020.* **Flute. (Arr.-Arr.-1 or 2 or 4)**

0021.* **Oboe. (Arr.-Arr.-1 or 2 or 4)**

0022.* **Clarinet. (Arr.-Arr.-1 or 2 or 4)**

0023.* **Bassoon. (Arr.-Arr.-1 or 2 or 4)**

0024.* **Saxophone. (Arr.-Arr.-1 or 2 or 4)**

0030.* **Trumpet. (Arr.-Arr.-1 or 2 or 4)**

0031.* **Horn. (Arr.-Arr.-1 or 2 or 4)**

0032.* **Trombone. (Arr.-Arr.-1 or 2 or 4)**

0033.* **Baritone. (Arr.-Arr.-1 or 2 or 4)**

0034.* **Tuba. (Arr.-Arr.-1 or 2 or 4)**

0040.* **Percussion. (Arr.-Arr.-1 or 2 or 4)**

0050.* **Violin. (Arr.-Arr.- 1 or 2 or 4)**

0051.* **Viola. (Arr.-Arr.-1 or 2 or 4)**

0052.* **Violoncello. (Arr.-Arr.-1 or 2 or 4)**

0053.* **String Bass. (Arr.-Arr.-1 or 2 or 4)**

0060.* **Piano. (Arr.-Arr.-1 or 2 or 4)**

0061.* **Organ. (Arr.-Arr.- 1 or 2 or 4)**

0062.* **Harpsichord. (Arr.-Arr.-1 or 2 or 4)**

0070.* **Composition. (Arr.-Arr.-1 or 2 or 4)**

*May be repeated for credit until requirements are met. A student may receive one, two, or four semester hours of credit depending on the degree program, i.e., B.S. in Ed., Secondary Applied—1 hr.; B.M., Music Education Option—1 or 2 hrs. B.M., Performance Option—4 hrs.

0100. **Ensemble, Band. (0-4-1)** Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.

0110. **Ensemble, Orchestra. (0-4-1)** Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.

0120. Ensemble, Jazz. (0-4-1) Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation. Prerequisite: Permission of instructor.

0300. Ensemble, Chorus. (0-4-1) Music majors and minors may count 6 sem. hrs. toward graduation. Non-music majors may count 4 sem. hrs. toward graduation.

0600. Chamber Ensemble. (Arr.-Arr.-1) The study and performance of ensemble literature for vocal, piano and instrumental groups. Prerequisite: Permission of the instructor.

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.)

1136. Class Instruction in Voice. (0-4-2) F, S. Beginning vocal instruction for all not assigned to studio lessons. (Audition not required.)

1137. Class Instruction in Voice. (0-4-1) Su. Beginning vocal instruction for all not assigned to studio lessons (audition not required). May be taken twice for credit. Students receiving A or B grades in the course may complete the vocal requirement by taking Music 2136.

1201. Beginning Class Instruction in Piano. (0-2-1) A course for students who have had no music reading experience. No audition necessary. May be repeated once for credit. Not open to music majors.

1203. Basic Functional Skills in Piano. (0-2-1) A course for music majors and minors who have had little or no previous piano study. No audition necessary.

1204. Basic Functional Skills in Piano. (0-2-1) Prerequisite: Music 1203 or placement by audition during enrollment.

1301. Class Instruction in Strings. (0-2-1) A study of beginning instrumental technique.

1302. Class Instruction in Clarinet, Flute and Saxophone. (0-2-1) A study of beginning instrumental technique.

1303. Class Instruction in Oboe and Bassoon. (0-2-1) A study of beginning instrumental technique.

1304. Class Instruction in Percussion. (0-2-1) A study of beginning instrumental techniques.

1305. Class Instruction in Trumpet and French Horn. (0-2-1) A study of beginning instrumental technique.

1306. Class Instruction in Trombone, Baritone and Tuba. (0-2-1) A study of beginning instrumental technique.

1421. Basic Music for Classroom Teachers. (1-2-2) A study of basic music theory. For elementary and junior high majors.

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; a study of selected examples from music literature is included. Must be taken in sequence.

1543, 1544. Aural Training in Music. (0-2-1 each course) F, S. The study of notational practice and the development of aural perception through sight singing and dictation. Must be taken in sequence.

2136. Class Instruction in Voice. (0-2-1) F, S. The second course of study for keyboard

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 of A or B.

2141. Vocal Diction I. (1-1-1) F. The study of vocal diction of English, Italian and Spanish song literature. Prerequisite: Two semesters of Applied Voice or equivalent.

2142. Vocal Diction II. (1-1-1) S. The study of vocal diction of German and French song literature. Prerequisite: Two semesters of Applied Voice or equivalent.

2155. Choral Conducting. (2-0-2) F. A course designed to make familiar the language and gestures for effective directing. Class serves as a laboratory chorus. Prerequisite: Music 1541, 1542; or two hours of Music 1136.

2201. Class Instruction in Piano. (0-2-1) A course in recreational piano skills for students with previous piano study. May be repeated once for credit. Not open to music majors. Prerequisite: Two semesters of Music 1201 or placement by audition during enrollment.

2203. Functional Skills in Piano. (0-2-1) A course for students with previous piano study. Prerequisite: Music 1204 or placement by audition during enrollment.

2204. Functional Skills in Piano. (0-2-1) Prerequisite: Music 2203 or placement by audition during enrollment.

2205. Keyboard Harmony and Improvisation. (0-2-1) F. This course develops functional skills in harmonization of melodies and develops harmonic awareness through figured-bass realization. Prerequisite: Music 1543 or permission of the chairman of the department.

2206. Sight-reading and Transposition. (0-2-1) S. This course develops functional skills in transposition of music written in vocal style in forms one to four parts, and in pianistic idiom, and develops sight reading skills in keyboard accompaniments and choral score. Prerequisite: Music 1543 or permission of the head of the department.

2360. Instrumental Conducting. (1-1-1) Su, F. An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 1543.

2421. Fundamentals of Music. (3-0-3) F. Continuation of Music 1421. Prerequisite: Music 1421. Required of elementary majors with an Area I or II concentration in music.

2422. Music Literature for Elementary Teachers. (2-0-2) S. Study of major forms and styles of Western Music suitable for use in the elementary general music program. Prerequisite: Music 1421 or equivalent. Required of elementary majors with an Area I or II concentration in music.

2440. Laboratory in Music Education. (1-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.

2543. Aural Training in Music. (0-2-1) F. A continuation of the study of notational practice and the development of aural perception. Prerequisite: Music 1544.

2560. Structural Analysis in Music. (3-0-3) F, S. A study of the relationship between structure and content in a variety of traditional forms and genres. Prerequisite: Music 2541.

2561. The Role of the Black in Western Music. (2-0-2) F, S. A course emphasizing the Black man's contributions, including jazz and folk music in Western Civilization. May be applied toward the humanities requirement.

2562. Introduction to Music Literature. (2-0-2) A course intended to develop intelligent and pleasurable listening abilities. A wide range of musical forms and periods is covered. Not open to music majors or minors.

2580. History and Literature of Music. (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. Prerequisite: Permission of instructor.

3221. Piano Pedagogy. (3-0-3) F. The basic skills and knowledge needed in teaching group and private piano. Prerequisite: Two years of applied piano or permission of instructor.

3360. Instrumental Conducting. (2-0-2) S. An advanced study of baton technique and score reading for instrumental organizations. Prerequisite: Music 2360.

3400. Methods of Teaching Music in Secondary Schools. (3-0-3) F. Instrumental methods and materials appropriate for junior and senior high school. Prerequisite: Music 2440. For music majors and minors.

3421. Music in Elementary Schools. (3-0-3) A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Music 1421. For elementary education majors.

3423. Music in Elementary Schools. (3-0-3) A study of the objectives, methods, and materials of music education in the elementary grades. Prerequisite: Music 1421. For elementary education majors with early childhood emphasis.

3439. Methods of Teaching Music in Elementary Schools. (3-0-3) F. Objectives, methods, and materials of music education in elementary grades. Prerequisites: Music 2440. 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) Su, F. Beginning practical experience in scoring for orchestra.

3561. History and Literature of Music. (3-0-3) F. The development of music from the ancient times through the baroque. Not open to music majors or minors.

3562. History and Literature of Music. (3-0-3) Su, S. The development of music from the classical period to the present. Not open to music majors or minors.

3563. Music in World Cultures: Western Folk and Traditional Music. (2-0-2) F. A survey which includes African music south of the Sahara. May be applied toward the humanities requirement.

3564. Music in World Cultures: Near Eastern, Asian and Pacific. (2-0-2) S. A survey of non-Western music cultures. May be applied toward the humanities requirement.

3571. History and Literature of Music (3-0-3) Su, F. Development of music from ancient times through the Renaissance. Open only to music majors and minors. Prerequisite: Music 2580.

3572. History and Literature of Music. (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 of student's plan of work must be submitted to Chairman, Department of Music, for approval and instructor assignment. The course may be repeated to a maximum of six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Choral Arranging. (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. English, Italian, and Spanish Song Literature. (2-0-2) F-odd numbered years. The study of English, Italian, and Spanish song literature. Prerequisite: Music 2141 or permission of the instructor.

4780. French and German Song Literature. (2-0-2) S-odd numbered years. The study of French and German song literature. Prerequisite: Music 2141 and 2142 or permission of the instructor.

4820. Music in the Classic Era. (3-0-3) F. A critical appraisal of music of the period, emphasizing distinctively classical features. Prerequisite: Music 3571 or 3572.

4830. Music in the Romantic Era. (3-0-3) S. A critical appraisal of music of the period, emphasizing distinctively romantic features. Prerequisites: Music 3571 and 3572.

4840. Band Arranging. (2-0-2) Su, S. A course in scoring and arranging materials for instrumental ensembles.

4850. Stage Band Arranging. (2-0-2) S. A course dealing with the basic problems and techniques involved in arranging for a stage band. Prerequisite: Music 2543 or equivalent.

4860. Marching Band Procedure. (2-0-2) F. Rudiments of marching band pageantry, and field maneuvers.

4872. Advanced Orchestration. (3-0-3) F. Advanced studies in orchestral scoring and arranging.

4900. Church Music. (2-0-2) S. A historical review of hymnody, psalmody, and choral and keyboard literature in relation to current worship practices.

4910 (5400). Keyboard Literature of the Baroque and Classic Eras. (3-0-3) F. A study of the literature of the stringed keyboard instruments from the virginalists through the Eighteenth Century.

4920 (5410). Keyboard Literature from the 1800's to the Present. (3-0-3) S. A study of piano literature of selected Nineteenth and Twentieth Century composers.

4960. Seminar in the Problems of Music Education. (Arr.-Arr.-1 to 3) Su. Special problems in music education planned on an individual basis.

4990. Workshop in Music. (Arr.-Arr.-1 to 3) Su. Literature techniques, pedagogy, and/or style in various media. Content may vary from summer to summer. Provided a student does not repeat courses with same content, he may earn a maximum of four semester hours credit.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5160. Advanced Conducting and Performance Practices. (3) Su, S. A study of style (in instrumental and vocal ensemble music) as it pertains to problems of the conductor. Prerequisite: Music 3155 or 3360.

5170. Analytical Techniques. (3) F. An investigation of structure, stylistic characteristics and compositional techniques. Prerequisite: Music 2560.

5200. Teaching Music Theory. (2) S. Principles, techniques, content and materials for teaching music theory courses in the freshman and sophomore years of college.

5360. Opera History and Literature. (3) S-odd numbered years. A study of selected operas from 1600 to the present. Prerequisite: Music 3571 and 3572.

5450. Instrumental Pedagogy. (3) Su, S. An advanced course designed to strengthen the knowledge, methods and techniques of the wind, string, and percussion instruments.

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

5510. Voice. (Arr.-Arr.-1 or 2)

5520. Flute. (Arr.-Arr.-1 or 2)

5521. Oboe. (Arr.-Arr.-1 or 2)

5522. Clarinet. (Arr.-Arr.-1 or 2)

5523. Bassoon. (Arr.-Arr.-1 or 2)

5524. Saxophone. (Arr.-Arr.-1 or 2)

5530. Trumpet. (Arr.-Arr.-1 or 2)

5531. Horn. (Arr.-Arr.-1 or 2)

5532. Trombone. (Arr.-Arr.-1 or 2)

5533. Baritone. (Arr.-Arr.-1 or 2)

5534. Tuba. (Arr.-Arr.-1 or 2)

5540. Percussion. (Arr.-Arr.-1 or 2)

5550. Violin. (Arr.-Arr.-1 or 2)

5551. Viola. (Arr.-Arr.-1 or 2)

5552. Violincello. (Arr.-Arr.-1 or 2)

5553. String Bass. (Arr.-Arr.-1 or 2)

5560. Piano. (Arr.-Arr.-1 or 2)

5561. Organ. (Arr.-Arr.-1 or 2)

5562. Harpsichord. (Arr.-Arr.-1 or 2)

5570. Composition. (Arr.-Arr.-1 or 2)

5621, 5622. Foundations and Principles of Music Education. (3 each course) 5621-F; 5622-S. Systematic treatment of the total music education program. Need not be taken in sequence.

5721, 5722. Class Piano Pedagogy and Internship. (3 each course) 5721-F; 5722-S. A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes. Prerequisite: Music 3221 or permission of the instructor.

5810. Music of the Twentieth Century. (3) (Omitted 1975-76) The chief musical developments in Western Europe and the Americas from 1900 to the present.

5840. Music in the Renaissance Era. (3) (Omitted 1975-76) A critical appraisal of music of the period, emphasizing distinctively Renaissance features.

5850. Music in the Baroque Era. (3) (Omitted 1975-76) A critical appraisal of the period, emphasizing distinctively Baroque features.

5880. Seminar in Music History. (3) Su, S. Intensive study of selected historical topics.

5900. Introduction to Research in Music. (2) F. An introduction to the various aspects of the musical discipline, intended to enable the student to think, research, and write intelligently about his field.

5950. Thesis. (3 to 6) *Note:* Maximum credit allowed in each course is six semester hours. A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) Student must submit outline of his plan of work to the Chairman of the Department of Music for approval and assignment to an instructor. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950. Maximum credit allowed in each course is six semester hours.

PHILOSOPHY

Note: Philosophy 1800, Philosophy 1830 or Philosophy 3000 is recommended as the most appropriate choice for students who elect a single course in Philosophy. As introductory treatments of the techniques and issues of philosophic inquiry, Philosophy 1800 focuses attention on representative problems without reference to historical perspective, whereas Philosophy 1830 explores a range of problems in an historical context. While both these courses deal mainly with the traditional problems of philosophy, Philosophy 3000 examines various contemporary ideas and issues in a philosophical perspective. If a student anticipates the election of more than one of the history courses, it would be advisable to schedule them in the order of their historical sequence.

Note also that all philosophy courses numbered below 4000 count toward satisfying the Humanities Requirement.

UNDERGRADUATE COURSES

1800. Problems of Philosophy. (3-0-3) An introduction to philosophic inquiry through analysis of selected problems: Knowledge, Value, Religion, and Alternative World Views.

1830 (2810). History of Philosophy: Ancient. (3-0-3) An introductory historical approach to the nature of Man, God, the World, and Value: the Pre-Socratics, Plato, and Aristotle.

1900. Logic. (3-0-3) An introduction to the principles of sound reasoning: logic and language, deductive and formal logic, empirical scientific methodology.

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. Prerequisite: Philosophy 1800 or 1830.

2860. History of Philosophy: Modern. (3-0-3) S. Philosophic thought from Galileo to Kant; the foundations of modern science and implications for religious, moral, and political theory. Prerequisite: Philosophy 1800 or 1830.

2900. Symbolic Logic. (3-0-3) (Omitted 1975-76) An examination of the special symbols and structures of symbolic logic: truth functions, quantification, the logic of relations, and the class calculus. Prerequisite: Philosophy 1900 or permission of the instructor.

3000. Philosophy and Current Issues. (3-0-3) 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. Prerequisite: Philosophy 1800 or 1830 or permission of the instructor.

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. Prerequisite: Philosophy 1800 or 1830 or permission of the instructor.

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. Prerequisite: Three semester hours in philosophy or literature, or permission of instructor.

3070. Existentialism. (3-0-3) S-even numbered years. Examination of such thinkers as Kierkegaard, Nietzshe, Heidegger, Tillich, and Sartre. Prerequisite: Philosophy 1800 or 1830 or permission of the instructor.

3100. Nineteenth Century Philosophy. (3-0-3) (Omitted 1975-76) A study of the principal philosophers of the Nineteenth Century such as Hegel, Nietzsche, Kierkegaard, Mill and Marx. Prerequisite: Philosophy 1800 or 1830.

3150. American Philosophy. (3-0-3) (Omitted 1975-76) An examination of the principal American philosophers from Jonathan Edwards to Dewey and Whitehead. Prerequisite: Six semester hours in philosophy or permission of the instructor.

3300. Social and Political Philosophy. (3-0-3) (Omitted 1975-76) A philosophical examination of man in society, the foundations of social and political institutions, and the nature of political obligation. Prerequisite: Six semester hours in philosophy or permission of the instructor.

3800. Contemporary Philosophy. (3-0-3) S-even numbered years. A study of some main Twentieth Century developments such as Existentialism, Phenomenology, Pragmatism, Positivism, and Analytic Philosophy. Prerequisite: Six semester hours in philosophy or permission of the instructor.

4100. Philosophy of Religion. (3-0-3) F. A philosophical interpretation of religion, religious experience, and fundamental problems: God, evil, immortality, religious knowledge. Prerequisite: Six semester hours in philosophy, including Philosophy 1800 or permission of the instructor.

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 activitiy courses.

SERVICE COURSES

0010. Athletic Training. (5-0-1) A practical experience for students in athletic first aid, rehabilitation, and safety. Prerequisite: Permission of the instructor.

0020. Baseball (Intercollegiate Team Participation). (5-0-1) S.

0030. Basketball (Intercollegiate Team Participation). (5-0-1) S.

0040. Field Hockey (Intercollegiate Team Participation). (5-0-1) F.

0050. Soccer (Intercollegiate Team Participation). (5-0-1) F.

0060. Volleyball (Intercollegiate Team Participation). (5-0-1). F.

0070. Badminton (Intercollegiate Team Participation). (5-0-1) S.

0080. Fencing (Intercollegiate Team Participation). (5-0-1) S.

0090. Football (Intercollegiate Team Participation). (5-0-1) F.

0100. Softball (Intercollegiate Team Participation). (5-0-1) S.

0120. Golf (Intercollegiate Team Participation). (5-0-1) S.

0130. Gymnastics (Intercollegiate Team Participation). (5-0-1) S.

0140. Tennis (Intercollegiate Team Participation). (5-0-1) S.

0150. Wrestling (Intercollegiate Team Participation). (5-0-1) S.

0160. Cross Country and Track (Intercollegiate Team Participation) (5-0-1) F, S.

0180. Swimming (Intercollegiate Team Participation). (5-0-1) S.

1000. Physical Development. (0-2-1) F, S.

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.

1450. Water Polo. (0-2-1) S. Prerequisite: Physical Education 1410 or demonstrate level of ability by passing a pre-test.

1460. Water Safety Instruction. (0-2-1) Prerequisite: A student must have passed Physical Education 1420 or have a recently-earned Senior Life Saving Certificate issued by the American Red Cross.

1470 (W 3860). Swimming (Synchronized). (0-2-1) S.

1480 (M 1670). Canoeing. (0-2-1) Prerequisite: Demonstrate level of swimming ability by passing a pre-test.

1600. Weight Training. (0-2-1)

1610 (M 1100; W 1800). Archery. (0-2-1)

1620 (M 1020) Orienteering. (0-2-1) 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.

1730. Field Hockey. (0-2-1) F.

1740. Soccer. (0-2-1) F.

1750 (1060). Softball. (0-2-1) S.

1760. Speedball. (0-2-1) F.

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.

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.

2670 (M 1720; W 2830). Golf (Advanced). (0-2-1) S.

2810 (M 1710; W 2810). Badminton (Advanced). (0-2-1) F.

2870 (M 1740; W 2870). Tennis (Advanced). (0-2-1) S.

2900. Folk Dance (Advanced). (0-2-1) S.

2910. Modern Dance (Advanced). (0-2-1) F.

2920. Ballroom Dance (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 Gynmastics. (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. Prerequisite: 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) 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.

2320. Technique and Analysis of Stunts, Tumbling and Gymnastics. (0-4-2) 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) Su, S. The development of basic game skills, strategies and techniques in basketball and flag football.

2410. Physical Education for Elementary Children. (3-0-3) An introductory course in elementary school physical education.

2440. Kinesiology. (4-0-4) The study of basic human anatomy, muscle actions, and laws of physics as used in the performance of sport skills.

2450. Physical Education for Exceptional Individuals. (2-0-2) F, S. An introduction to various conditions and activity programs suitable to the needs of exceptional individuals. Prerequisite: Physical Education 2440.

3130 (M 4330). Basic Care and Prevention of Athletic Injuries. (3-0-3) Primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved.

3200. 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.

3230 (W 3230 and 3240). Techniques and Theory of Modern Dance III. (0-4-2) F. A course which places emphasis on intermediate and advanced dance techniques, problem-solving, improvisation and the application of the kinesthetic sense. Prerequisites: Physical Education 2230.

3250 (W 3250 and 3260). Dance Composition/Production Workshop. (2-2-3) S. The course acquaints students with elements of dance, its theatre, application and composition. The advanced student has opportunity to create works for performance and evaluation. Prerequisites: Physical Education 2230 or permission of the instructor.

3270. History and Philosophy of Dance. (3-0-3) F. May be used as partial fulfillment of the humanities requirement. A survey of the history of dance from early civilization to present; dance in education, and the philosophic goals of dance.

3330. Badminton and Tennis Teaching and Coaching (0-4-2) 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. (0-4-2) S. A survey of aquatic activities. Emphasis will be placed on mechanical principles of swimming and diving, and methods of teaching aquatic activities. Prerequisite: Equivalency of Junior Life Saving or recommendation of instructor.

3370. Field Hockey and Basketball Teaching and Coaching. (2-2-3) F. Provides for the understanding of advanced techniques, skill analyses and progressions as applied to field

hockey and basketball with further skill development in these areas. Prerequisite: Previous background or permission of instructor.

3380. Softball and Volleyball Teaching and Coaching. (2-2-3) S, Su. Provides for the understanding of advanced techniques, skill analyses and progressions as applied to softball and volleyball with further skill development in these areas. Prerequisite: 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) F, 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) Su, 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, S. 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.

3580. Gymnastics Coaching. (2-2-3) F. Technique and theory of coaching gymnastics, including free exercise and apparatus.

3600. Introduction to Elementary School Physical Education. (0-4-2) Physical education as it relates to the total education of the elementary school child with emphasis on the developmental approach.

3610. Game Activities for Elementary Schools. (3-0-3) F, Su. Body mechanics and games; emphasis is on the analysis of and practice in such basic skills as throwing, catching, dodging, striking an object. Prerequisite: Physical Education 1530 or 2410 or 3600.

3620. Rhythmical Activities for Elementary Schools. (3-0-3) Dance and creative rhythms; emphasis is on basic locomotor and axial skills in movement as well as the specific skills in folk and square dance. Prerequisite: Physical Education 1530 or 2410 or 3600.

3630. Tumbling and Apparatus Activities for Elementary Schools. (3-0-3) A study of tumbling and apparatus in the elementary school curriculum. Spotting techniques in mat and apparatus work is stressed. Prerequisite: Physical Education 1530 or 2410 or 3600.

3640 (W 3430). Elementary School Physical Education Practicum. (1-4-3) 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.

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.

4320 (M 4320; W 4110 and 4130). Organization, Administration and Supervision of Physical Education. (3-0-3)

4340. Physiological Foundations of Coaching. (2-0-2) S. The course is designed to provide the prospective athletic coach with an understanding of the physiological factors that affect human performance.

4741, 4742, 4743. Independent Study. (Arr.-Arr.-Arr.-1, 2, 3 respectively) *Note:* May be repeated; the maximum amount of credit which may be earned is six semester hours.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Measurement and Evaluation in Physical Education. (3-0-3) Selection and administration of physical measurements and written tests commonly used in physical education.

4770 (5400). Advanced Techniques of Athletic Training. (1-0-1) Su, S. A course concerned with current trends in initiating, organizing, and conducting training programs.

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-even numbered years. 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 3000 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 4830.

5300. Advanced Administration of Physical Education in Schools. (2) F, Su. Liability; construction of facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.

5410. Advanced Coaching of Baseball. (1) Su. Concerned with current trends in the specific areas of interschool baseball programs. A detailed study of new techniques and equipment used in the coaching of baseball.

5420. Advanced Coaching of Basketball. (1) Su. Concerned with current trends in the specific areas of interschool basketball programs. A detailed study of new techniques and equipment used in the coaching of basketball.

5430. Advanced Coaching of Football. (1) Su. Concerned with current trends in the specific areas of interschool football programs. A detailed study of new techniques and equipment used in the coaching of football.

5440. Advanced Coaching of Track and Field. (1) Su. Concerned with current trends in the specific areas of interschool track and field programs. A detailed study of new techniques and equipment used in the coaching of track and field.

5570. Analysis of Human Motion. (3) F-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.

5621. Modern Jazz Dance. (2) Su-odd numbered years. Basic skills and techniques in modern jazz dance.

5622. International Folk Dance. (2) Su-even numbered years. Presents the graduate student with an opportunity to increase skills and techniques in folk and square dance.

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) F-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

1000. Physics for Elementary and Junior High. (1-2-2) Basic concepts of physics are presented through the study of topics selected from current elementary and junior high science programs. Restricted to students in curricula for elementary and junior high school teachers.

1010. Chemistry for Elementary and Junior High Education. (1-2-2) Principles of chemistry having particular application in the fields of elementary and junior high education are presented. Restricted to students in curricula for elementary and junior high school teachers. Prerequisite: Physical Science 1000. Credit cannot be accepted toward a degree for both Physical Science 1010 and Chemistry 1100 or 1300 or 1310.

3400. Methods of Teaching Physical Sciences. (3-0-3) F, S. Science lesson presentations, and examination of current literature concerning new approaches in teaching chemistry and physics.

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 1150 and 1160 are intended for students desiring a cultural exposure to physics but lacking the science and mathematics background for enrollment in Physics 1350 and 1360. Students with more extensive background should normally take the latter sequence.

UNDERGRADUATE COURSES

1050. Adventures in Physics. (2-2-3) Emphasizes the relevance of physics to Twentieth Century living. Topics selected from such areas as environmental pollution, light and photography, physics of music, space travel, atomic energy, relativity, etc. No prerequisite. No credit toward major or minor in physics nor for a student who has had a previous course in college physics.

1150. Principles of Physics. (3-2-4) Motion, Newton's Laws, Energy Momentum, Gravity and Heat. Not intended for physics majors, chemistry majors, or pre-eingineering 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 for Speech and Music Students. (2-2-3) S. Sound and acoustics as applied to speech and music. Intended for music and speech majors or minors.

1350. College Physics I. (3-3-4) Statics, dynamics, simple harmonic motion, waves, sound, kinetic theory, and thermodynamics.

1360. College Physics II. (3-3-4) Electricity and magnetism, optics, atomic and nuclear physics. Prerequisite: Physics 1350 or permission of instructor.

2370. Modern Physics. (2-3-3) F. Relativity, origin of quantum theory, atomic structure, nuclear structure, instruments and accelerating machines used in nuclear physics, nuclear reactions, elementary particles. Prerequisite: Physics 1360 or permission of instructor. Corequisite: Mathematics 2351.

2390. Classical Mechanics I. (3-0-3) One dimensional motion, line integral computation of work, vector analysis in coordinate systems, conservative fields, harmonic motion. Prerequisite: Physics 1350. Corequisite: Mathematics 2352.

2400. Classical Mechanics II. (3-0-3) S. Central force motion, gravitational fields and potential, accelerated coordinate systems, vibrating string. Prerequisite: Physics 2390. Corequisite: Mathematics 2353.

3000. Descriptive Astronomy. (2-2-3) An introduction to: the solar system, stars, starlight, interstellar material, galaxies, evolution of stars and galaxies. Open to all students. Does not count towards a physics major or minor.

3010, 3011, 3012. Mini-Physics. (1-0-1 for each) 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. (2-2-3) F. Coulomb's law, electric fields, potential, Gauss' law, capacitance, dielectrics, electrostatic energy, DC circuits. Prerequisites: Physics 1360 and Mathematics 2353.

3420. Electricity and Magnetism II. (3-3-4) S. Magnetic fields, inductance, varying electric currents, magnetic materials, L, R, and C circuits, Maxwell's equations and applications. Prerequisite: Physics 3410.

4000. Seminar in Physics. (1-0-1) F, S. Reports and discussions of selected topics with instructor approval for oral presentation. Required of junior majors.

4010. Seminar in Physics. (1-0-1) F, S. Reports and discussions of selected topics with instructor approval for oral presentation. Required of senior majors.

4410. Independent Study. (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 3420, Mathematics 3501.

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 1360.

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 1360.

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 2370; Mathematics 3501.

4860. Quantum Mechanics and Atomic Physics II. (2-0-2) F. Applications of the Schrodinger equation to nuclear, solid state, exclusion principle, angular momentum, atomic spectroscopy. Prerequisite: Physics 4850.

4870. Theoretical Physics. (3-0-3) S. Selected topics from dynamics (Lagrangian, Hamiltonian) electromagnetic theory (Maxwell's equations), etc. Prerequisites: Physics 2400. Corequisite: 3420 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.)

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 1975) 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 1975) 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 1976) 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 1976) Topics of special interest in high school teaching selected from modern astronomy. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.

5160. Modern Physics for High School Teachers. (3) Su. (every third year beginning 1974) Topics

of special interest in high school teaching selected from Twentieth Century physics. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.

5170. Optics for High School Teachers. (3) Su. (every third year beginning 1974) Topics of special interest in high school teaching selected from the field of optics. Prerequisites: General college physics, calculus, and high school teaching experience; or permission of the chairman of the department. Credit may be counted only toward the M.S.Ed. degree.

5990. Independent Study. (1 to 6) Selected problems based upon the student's background and interests. Admission and assignment of problems by arrangement. Laboratory, reading, conference, and oral reports. Prerequisite: Permission of the instructor.

POLITICAL SCIENCE

UNDERGRADUATE COURSES

1003. Introduction to Political Science. (3-0-3) The basic concepts of Political Science: types of governmental structures and functions, political processes, political philosophies.

1011. Participation in Political Campaigns. (1-Arr.-1) F. state and national election years. (Pass-Fail) Active participation in the electoral campaign of an individual candidate for state or national office or for the candidates of one political party. May be repeated with permission of the chairman of the department.

1104. American National Government. (3-2-4) The fundamental principles of the American Constitutional System: Federalism, political opinion, political parties, pressure groups, legislators, the Presidency, bureaucracy, judiciary, civil liberties.

2003 (2002). Bibliography of Political Science. (1-4-3) F, S. A survey of library materials and library research techniques in political science.

2011. Constitutional Principles. (1-0-1) F, S. (Pass-Fail only) A study of the Declaration of Independence, the proper use and display of the flag, and the constitutions of the United States and the State of Illinois.

2203. Introduction to International Relations. (3-0-3) 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) 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. Government and Politics of Great Britain and Western Europe. (3-0-3) (Omitted 1975-76) An area approach to the structures and functions of governments, political attitudes and behavior, parties, elections and interest groups. Prerequisite: Three semester hours of political science.

3313. Current Policy Issues in Western Europe and Great Britain. (3-0-3) (Omitted 1975-76) Health and welfare, civil rights, education, environment, labor-management, agricul-

ture, foreign policy, the Common Market, and other issues of interest. Prerequisite: Three semester hours of political science.

3323. Government and Politics of the U.S.S.R. and Eastern Europe. (3-0-3) 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) (Omitted 1975-76) 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. The political systems and the patterns of development in Africa with an emphasis upon the processes of political modernization in contemporary Africa. Prerequisite: Three semester hours of political science.

3363. Government and Politics of Asia. (3-0-3) F. The political systems of the major nations of Asia with an emphasis upon nationalism, political processes and institutions. Prerequisite: Three semester hours of political science.

3413. Introduction to Public Administration. (3-0-3) F. A study of the growth, principles and problems of public administration and its relationship to politics. Prerequisite: Political Science 1104.

3503. Introduction to the Legal System. (3-0-3) F. Judicial institutions and processes with emphasis upon the selection of judges, judicial decision making, and proposals for reform of the judiciary. Prerequisite: Political Science 1104 or permission of the instructor. (Recommended for Pre-Law students.)

3513 (4783). Politics and the Legal Process. (3-0-3) S. An analysis of the legal process as an integral part of the American political system with an emphasis upon the behavior of its participants: the police, lawyers, defendants, plaintiffs, politicians. Prerequisite: Political Science 1104.

3643. Comparative State Politics. (3-0-3) 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 1104 or permission of the instructor.

3723. Political Behavior. (3-0-3) S. An analysis of individual and group political behavior with an emphasis upon current research. Prerequisite: Political Science 1104 or permission of the instructor.

3733. Interest Groups. (3-0-3) S. An analysis of the role and techniques of labor, business, agrarian, ethnic and other groups in the political process. Prerequisite: Political Science 1104 or permission of the instructor.

3743. The Legislative Process. (3-0-3) S. An examination of the institutional structures and functions of legislative bodies. Prerequisite: Political Science 1104 or permission of the instructor.

3753. The American Presidency. (3-0-3) Su, 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 1104 and 2603 or permission of the instructor.

3990. Summer Study in Ireland. (0-0-6) Su. Independent research in political science. Six

weeks of residence in the Republic of Ireland will be required. Prerequisite: Junior or senior standing.

4000. Internship. (Arr.-Arr.-15 or 12) (Pass-Fail) A semester's experience as an intern in a governmental agency, political party organization, or state or national student organization. Credit for this course does not count toward graduation if the student has earned 12 or more semester hours of Pass-Fail credit in student teaching or any other internship offered by the University. Prerequisites: Permission of the chairman of the department and acceptance of the student by an appropriate organization or agency. *Note:* 15 semester hours credit in fall or spring semester; 12 semester hours credit in summer term.

4503. Independent Study. (Arr.-Arr.-3) An intensive study in some specialized area of interest in political science; the student must present an individual study plan for approval. Prerequisites: Six semester hours of political science, senior standing, and permission of the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4753. Methods of Political Analysis. (3-0-3) F. The evolution of concepts of political analysis; types of political analysis; the formation of concepts, hypotheses, theories and research problems. Prerequisite: Nine semester hours of political science or permission of the instructor.

4744. The Supreme Court and the Constitution. (4-0-4) F, S. An analysis of Supreme Court Decisions on judicial review, federalism, powers of Congress, powers of the President, contracts, commerce, taxation; the present status and prospects of civil liberties. Prerequisites: Political Science 1104, 3503, or permission of the instructor.

4793. Public Administration: Organization and Process. (3-0-3) Su, F. A study of the dynamics of organization origin and policy development; a survey of contemporary theory and its significance. Prerequisite: Political Science 1104.

4803. Politics of the Emerging Nations. (3-0-3) S. A comparative survey of the politics, policies and problems of the emerging nations in Africa, Asia, the Middle East and Latin America. Prerequisite: One 300-level course in comparative government and politics or permission of the instructor.

4813. International Law. (3-0-3) S. An analysis of the historical bases and current trends in international law and its role in current world politics. Prerequisite: Political Science 2203 or permission of the instructor.

4821, 4822, 4823. International Policy Issues. (3-0-1 each course) S. Students role-play positions of nation-states on contemporary international issues at the regional or world level. (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. May be repeated, but no more than three semester hours from these courses may be counted toward graduation.

4831, 4832, 4833. National Policy Issues. (3-0-1 each course) Su, F. Students role-play policy positions of national political leaders 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. May be repeated, but no more than three semester hours from these courses may be counted toward graduation.

4843. Analysis of Urban Politics. (3-0-3) S. A study of the empirical research dealing with urban government and the structural components of urban politics. Prerequisite: Political Science 2603 or 3643 or permission of the instructor.

4903. Political Theory: Ancient, Medieval, and Modern. (3-0-3) F. The origins and evolution of

major concepts in political thought from the time of Pericles through Rousseau. Prerequisite: Six semester hours of political science or permission of 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.

4952. The Literature of Political Science. (2-0-2) F, S. A comprehensive survey of selected works in the literature of political science. Prerequisite: Twelve semester hours of upper division courses in political science.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5003, 5013. Administrative Internship. (3 each course) A student will serve as an intern in a federal, state, county, municipal or party organization or agency appropriate to his area of concentration.

5023. Contemporary Problems in International Politics. (3) S. Approaches to the study of international politics and contemporary world problems. Prerequisite: Political Science 2203, or 3203 or 3223.

5033. Seminar in Western Political Systems. (3) 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 3503, 3513, or 4774.

5063. Seminar in Urban Development. (3) F. An analysis of the patterns of development of American cities with an emphasis upon the political ramifications of urban areas. Prerequisites: Political Science 2603, 3643, or permission of the instructor.

5073. Seminar in Political Behavior. (3) Su. An analysis of political behavior; the formation of opinions, roles and personality; democratic and authoritarian personality types. Prerequisite: Political Science 3723 or permission of the instructor.

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.

5533. Seminar in Political Modernization. (3) F. An analysis of selected topics relating to the political process and structures of the developing nations. Prerequisite: Nine semester hours in comparative political systems or international relations or permission of the instructor.

5543. Seminar in Public Administration. (3) S. The environment of public administration, functions of the administrator, organizational theory and practice, personnel administration, administrative law. Prerequisite: Political Science 3413 or 4793 or permission of the instructor.

5583. Seminar in Political Analysis. (3) S. An analysis of the logic of scientific inquiry and the construction and carrying out of systematic research designs. Prerequisite: Political Science 4753 or permission of the instructor.

5593. Seminar in Contemporary Political Theory. (3) F. An examination of the development of political theory since World War I with an emphasis upon individual research. Prerequisite: Nine semester hours of political science or permission of the instructor.

5950. Thesis. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) An intensive study in some specialized area of interest in political science; the student must present an individual study plan for approval. Prerequisite: Nine semester hours of graduate courses in political science. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

PSYCHOLOGY

UNDERGRADUATE COURSES

2310. General Psychology. (3-0-3) A survey of methods, concepts, and principles in psychology.

2340. Advanced General Psychology. (3-0-3) Introduction to sensation, perception, learning, physiological psychology and research design. 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.

3270 (2510). Models of Psychopathology. (3-0-3) Introduction to a basic understanding of abnormal and deviant behavior, etiology, treatment, related theory and research. Prerequisite: Psychology 2310. Credit not given for both Psychology 3270 and 4780.

3310. Physiological Psychology. (3-0-3) F, S. A survey of the physiological correlates of the behavior in man and lower organisms. Prerequisite: Psychology 2310.

3400. Methods of Teaching Psychology. (3-0-3) F, 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. (2-2-3) Statistical background, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests. Prerequisite: Psychology 2310. Credit is not given for both 3600 and 3601. For psychology majors.

3620. Psychology of Learning. (3-0-3) S. Introduction into basic principles and concepts of learning with particular emphasis on the application to problems of human learning. Prerequisite: Psychology 2310.

3800. Research Methods. (4-0-4) A practical introduction to elementary statistics and research design, emphasizing how-to-understand research. Not open to Option I psychology majors. Prerequisites: Psychology 2310 and 2340.

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, 2340 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, 2340 and 2610.

3900, 3910, 3920. Independent Study in Psychology. (Arr.-1-3 each course) Admission and assignment of problems by arrangement. Laboratory, reading and weekly conference. Prerequisite: Fifteen semester hours in psychology and/or permission of the instructor. Limited to six hours.

3990. Summer Study in Ireland. (0-0-6) Su. Independent research in psychology. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Junior or senior standing.

4250. History and Systems. (4-0-4) F. Equal time will be devoted to contemporary systems and the history of psychology as an experimental science. Prerequisite: Fifteen semester hours in psychology.

4700. Psychology of Racism and Black Americans. (3-0-3) Psychology of Racism. Applications of social psychological principles to understanding the formation and perpetuation of racial attitudes. Prerequisite: Psychology 2310, or permission of the instructor.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Psychology of Exceptional Children. (3-0-3) Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal. Prerequisite: Psychology 2310.

4780. Abnormal Behavior. (3-0-3) An examination of etiology, diagnosis, treatment and prevention of neuroses, psychoses and psychophysiological disorders. Prerequisite: Psychology 2310. Credit not given for both 4780 and 3270.

4790. Individual Intelligence Testing. (3-0-3) Advanced study of individual intelligence tests; practice in administration and interpretation. Prerequisites: Psychology 2310; and 3600 or 3601.

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. Prerequisites: Psychology 2610 or equivalent.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5000. Human Operant Conditioning. (3) The basic concepts of human operant conditioning. Emphasizes applied research and techniques of behavior management applicable to the home, school and clinic.

5010. Psychological Measurements: Actuarial Techniques. (3) Advanced study of self-report tests: practice in administration and interpretation. Prerequisites: Psychology 2610, 3600 or 4780 or equivalents.

5020. Psychological Measurements: Projective Techniques. (3) Su, F. Study of perceptual personality tests: practice in administration and interpretation. Prerequisites: Psychology 3590 and 5010.

5030. The School Psychologist. (2) S. An introduction into the activities of the school psychologist. Prerequisites: Psychology 3500 and 3520.

5040. Psychotherapeutic Principles and Practices I. (3) A critical survey of issues, principles, practices, and research as related to the traditional approaches in psychotherapy. Prerequisite: Psychology 3590 or equivalent.

5050. Therapeutic Practices: Behavioral Approaches. (3) Su, S. An indepth approach to the learning foundations of behavior therapy and the practices derived from these foundations. Prerequisites: Psychology 3620 and 5000 or their equivalents.

5550. Community Psychology. (3) 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 analysis of data. Prerequisite: Psychology 2610 or equivalent.

5620. Theories of Learning. (3) S. A survey and comparison of theories of learning. Prerequisite: Psychology 3620 or permission of the instructor.

5700. Motivation. (3) F. An introduction to theory and research related to biological and psychological motivation. Prerequisite: Psychology 3310 or permission of the instructor.

5710. Comparative Psychology. (3) Su. A comparison of psychological processes in various forms of animal life, including man. Prerequisite: Permission of the instructor.

5810. Advanced Experimental I. (4) F. A survey of the basic findings and theories related to sensory and perceptual processes. Prerequisite: Psychology 3820 or permission of the instructor. Psychology 3310 recommended.

5820. Advanced Experimental II. (4) Su, S. Lecture/Lab. Basic laboratory techniques and instrumentation involved in the study of learning. Emphasizes original experimentation. Prerequisites: Psychology 3810 or 3820 or permission of instructor. Psychology 3310 recommended.

5890. Field Study or Practicum. (3) Supervised experience in a setting that allows the application of skills and training of the student's area of concentration. Prerequisite: Approval of the chairman of the department and permission of the instructor. May be repeated.

5950. Thesis. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5970. Seminar Topics in Psychology. (3) Specific areas or topics of psychology will be given intensive study through readings, reports and group discussions. Topics will be selected on the basis of need. Prerequisite: Permission of the instructor.

5990. Independent Study. (1 to 6) Advanced study of topics selected by the student and approved by his advisor. May include research, readings, group discussions. Prerequisite: Permission of 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 physical and mental 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 (4830). 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) Su. A field experience to include full time assignment to an established recreation program. Prerequisite: Recreation 3550.

4741, 4742, 4743, 4744, 4745, 4746. Independent Study. (Arr.-Arr.-1, 2, 3, 4, 5, 6 respectively) An individual study under faculty supervision of 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.

SECONDARY EDUCATION

UNDERGRADUATE COURSES

3000. Levels I and II: Experimental Secondary Education Program. (2-3-3) Competency based program for secondary teachers.

3100. Level III: Experimental Secondary Education Program. (3-5-5) 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: Experimental Secondary Education Program. (Arr.-Arr.-13) Competency based program for secondary teachers. Prerequisite: Secondary Education 3100.

4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4780. Studies in Education. (3-0-3) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4790. Studies in Education. (2-0-2) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

4800. Studies in Education. (1-0-1) On demand. Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5490. Special Educational Problems. (1-3) On demand. Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the chairman of the department. May be repeated for a total of six semester hours.

5990. Independent Study. (1 to 6) Intended to permit a student to pursue more intensively various aspects of the area of his special interest. Prerequisite: Permission of the chairman of the department.

6150. Seminar in College and University Teaching. (2) On demand. This course is designed to develop and improve skill in college and university teaching. The emphasis will be upon developing techniques of teaching, psychology of learning, instructional media, and evaluation.

SOCIAL SCIENCE

UNDERGRADUATE COURSES

3400. Methods and Materials in the Social Studies in the Secondary School. (3-0-3) Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies.

4400, 4410. Contemporary Problems. (Topics to be determined). (3-0-3 each course) Su.

SOCIOLOGY

UNDERGRADUATE COURSES

2710. Principles of Sociology. (3-0-3) Study of basic sociological concepts; and social processes; structural and functional analysis of social groups.

2720. Social Problems and Social Trends. (3-0-3) Analysis of the nature of social problems, theories, deviant behavior; social disorganization, adjustment mechanisms and social control. Prerequisite: Sociology 2710.

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 researach 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.

3791. The Community. (3-0-3) S. Analysis of community structure and function, ecological patterns and processes, social problems, and social action. Prerequisite: Sociology 2710.

3801. The Sociology of Rural Life. (3-0-3) F. Study of patterns of land settlement, social interaction, social structure and function, and social problems unique to the rural way of life. Prerequisite: Sociology 2710.

3810. The Sociology of Urban Life. (3-0-3) F, S. Analysis of the social structure and function, social processes, and planning and development of the city. Prerequisite: Sociology 2710.

3990. Summer Study in Ireland. (0-0-6) Su. Independent research in sociology. Six weeks of residence in the Republic of Ireland will be required. Prerequisite: Sociology 2710 and junior or senior standing.

4251. The Sociology of Education. (3-0-3) 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, 4611.

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, 3761 or permission of the instructor.

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.

5400. Problems of the American Family. (3) S. Investigation of the various theoretical orientations and methodological techniques in the study of family problems; analysis of patterns, trends, and adjustment mechanisms.

5700. Advanced Criminology. (3) 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. (2-0-2) 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. (2-0-2) This course will deal with the nature and characteristics of pupils with learning disabilities. Pupils with epilepsy, aphasia, and brain damage will be studied.

3400. Methods, Material, Curriculum for Secondary Educable Mentally Handicapped. (3-0-3) S. Methods and techniques of teaching educable mentally handicapped children at secondary level. Prerequisites: Junior standing and Special Education 3300.

4660. The Socially and Emotionally Maladjusted Child. (3-0-3) A study of the nature and characteristics of socially and emotionally maladjusted children including causes, treatment, identification, and educational planning.

4741, 4742, 4743. Independent Study. (Arr.-Arr.-1, 2, 3 respectively) May be repeated for a total of 6 semester hours credit.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4870 (4670). Diagnosis of Problems of Socially and Emotionally Maladjusted Children. (2-0-2) S. A study of the tests and examinations used to evaluate the emotional and psychological problems of maladjusted children. Prerequisite: Special Education 2500 and 4660 or permission of the chairman of the department.

4880 (4680). Teaching the Socially and Emotionally Maladjusted. (3-0-3) Su. Remedial methods of teaching the socially and emotionally maladjusted. Prerequisites: Special Education 4660 and 4870 or permission of the chairman of the department.

4960. Educational Procedures for Educable Mentally Handicapped Children. (3-0-3) Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children. Prerequisite: Special Education 2500 and 3300 or permission of the chairman of the department.

4980. The Diagnosis of Learning Disabilities. (3-0-3) The study of the means and methods of diagnosing learning disabilities of children which interfere with their learning processes. Prerequisites: Special Education 3350 or major in psychology (teaching option), or permission of the chairman of the department.

4990. Remediation of Learning Disabilities. (3-0-3) F, S. This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching; curriculum needs, and classroom management of such children will be studied. Prerequisites: Special Education 3350, 4980, or permission of the chairman of the department.

SPEECH-COMMUNICATION

UNDERGRADUATE COURSES

1020. Applied Forensics. (Arr.-Arr.-1 to 4) Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the chairman of the department. A maximum of four semester hours may be earned; however, a total of four semester hours credit may be counted towards a bachelor's degree for a combination of 1020 and 3020.

1310. Introduction to Speech-Communication. (3-0-3) Fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view.

1400. Parliamentary Law. (2-0-1) F, S. The history, theory, and practice of democratic, orderly conduct of business through application of accepted rules of procedure.

2300. Persuasion. (3-0-3) Study of attention, credibility, emotion, identification, motivation, rationalization, and suggestion in communication.

2320. Discussion. (3-0-3) Study of the nature of discussion and bases of belief: subject-problems, preparation, process, leadership, participation, types and forms, and evaluation.

2340. Reasoning in Controversy. (3-0-3) F, S. Study of the responsibility of the advocate in investigation and analysis of evidence; structure of argument; reasoning and refutation. Prerequisite: Speech-Communication 1310 or permission of the chairman of the department.

2520. Introduction to Mass Communications (Broadcasting). (3-0-3) 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.

3020. Advanced Applied Forensics. (Arr.-Arr.-1 to 4) Individual study and work in the various activities of the forensics program. Prerequisite: Permission of the chairman of the department. A maximum of four semester hours may be earned; however, a total of four semester hours credit may be counted towards a bachelor's degree for a combination of 1020 and 3020.

3170. Oral Communication Theories. (3-0-3) F. Historical survey of major theorists and theories.

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. Prerequisite: Speech-Communication 1310 and 2300.

3300. Interview and Conference. (3-0-3) The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and interpersonal situations. Prerequisite: Speech-Communication 1310.

3400. Teaching Speech. (3-0-3) F, S. Study of problems, methods, and materials, in teaching oral communication; teaching and directing co-curricular activities. Prerequisites: Fourteen semester hours in speech.

3510. Broadcasting Internship. (Arr.-Arr.-1) Individual study, experience and practice in the various aspects of commercial broadcasting. May be taken for a maximum of 3 semester hours credit.

3520. Radio Production. (3-0-3) F. Study of equipment and techniques involved in producing radio programs: announcing, scripting, writing, and producing.

3530. Introduction to Film Communication. (3-0-3) F. Film as the expression of the performers and technicians. Critical discussion of the film form and content.

3540. Television Production. (3-0-3) S. Study and practice of adapting demonstrative documentary and dramatic communications to the television medium. Exercises using studio TV equipment.

3620. Broadcast News and Special Events. (3-0-3) S. Study of radio and television news technique and ethics, including gathering, editing, writing, organizations, presentation, and critical judgment. Prerequisite: Speech-Communication 2520 or Journalism 2102.

3830 (4830). General Semantics. (3-0-3) Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.

3990. Summer Study in Ireland. (0-0-6) Su. Independent research in speech communication. Six weeks of residence in the Republic of Ireland 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) F. Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.

4900. Directing Forensic Activities. (3-0-3) 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.

4996. Problems in Teaching Speech. (3-0-3) Su. The analysis of specific problems peculiar to speech education and problems in general education applicable to the speech classroom.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to graduate students.)

5030. Seminar. (3) (On demand) A study of different aspects of speech communication. Topics will vary according to student demands, availability, and interest of faculty.

5100. Advanced Argumentation Theory. (3) 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.

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 3830 or permission of the instructor.

5820. Survey of Behavioral Research in Communications. (3) S. The summarization, evaluation, and synthesization of behavioral research in communication. A review of scientific methods and experimental results of communication studies. Prerequisite: Speech Communication 5910 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 5990.

5990. Independent Study. (1 to 6) The study of and reports on a specific problem in speech. Student presents an individual study plan for researching history, theory, and/or practice of speech. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

SPEECH PATHOLOGY AND AUDIOLOGY

UNDERGRADUATE COURSES

0201. Communication I for International Students. (3-2-4) (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. Students observe in the clinic.

2210. Childhood Development of Speech. (3-0-3) S. Normal development and measurement of spoken language abilities in children.

2800. Speech Pathology. (3-0-3) 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 tecnniques. Students observe in the clinic. Prerequisite: Speech Pathology and Audiology 2800 or permission of the instructor.

3250. Language Disorders. (3-0-3) F. Evaluation, and correction for language disorders associated with developmental delay C.N.S. involvements, and cultural deprivation. Prerequisites: Speech Pathology and Audiology 2210, 2800, 2830 or permission of the instructor.

3300. Voice and Articulation Disorders. (3-0-3) F. Nature, causes and treatment of voice and articulation disorders. Prerequisites: Speech Pathology and Audiology 2800, 2830 or permission of the instructor.

3410. Stuttering. (2-0-2) F. Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated. Prerequisites: Speech Pathology and Audiology 2800, 2830 or permission of the instructor.

3500. Organic Disorders of Speech. (3-0-3) S. Etiology and correction of organic disorders of speech; cleft palate, cerebral palsy, and laryngectomy. Aphasia will be included briefly.

Prerequisites: Speech Pathology and Audiology 2800, 2830, 3300 or permission of the instructor.

3600. Audiometry and Hearing Aids. (3-0-3) S. Pure tone and speech audiometry; techniques for hearing aid selection. Students conduct hearing surveys and do individual hearing tests. Prerequisites: Speech Pathology and Audiology 2800, 2830, or permission of the instructor.

4700. Clinical Practice. (Arr.-Arr.-1 to 3) Supervised work with a variety of speech and hearing defects; 18 clock hours per semester hour's credit. Prerequisites: Speech Pathology and Audiology 2800, 2830; permission of the Director of the Speech and Hearing Clinic.

4740. Independent Study. (Arr.-Arr.-3) (May be taken twice.) Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the chairman of the department.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4800. Speech Correction for the Classroom Teacher. (3-0-3) F, 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.)

5250. Language Disturbances. (2) S. Language patterns of children and adults with oral communication impairments. Emphasis on the diagnostic and corrective procedures. Prerequisites: Speech Pathology and Audiology 2210, 2800, 3500; Psychology 4790 or permission of the instructor.

5350. Articulation Disorders. (2) F. Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and correction are stressed. Prerequisite: Speech Pathology and Audiology 3300.

5370. Voice Disorders. (2) S. Advanced study of etiology and correction of functional and organic voice problems. Voice pitch, quality, and intensity. Prerequisite: Speech Pathology and Audiology 3300.

5410. Stuttering. (3) S. Advanced study of the problem; integration of prominent theories and treatment in stuttering; analysis of significant findings and trends in research on stuttering. Prerequisite: Speech Pathology and Audiology 3410.

5500. Organic Speech Disorders. (4) F. Diagnosis and therapy for aphasia and related disorders. The equivalent of two hours of testing practicum per week is required. Prerequisite: Speech Pathology and Audiology 3500 or permission of the instructor.

5600. Audiometry. (3) F. Advanced study of the assessment of hearing losses. Emphasis on a functional test battery, diagnostic problems, and hearing aid selection. Prerequisite: Speech Pathology and Audiology 3600.

5651. Aural Rehabilitation I. (2) F. Advanced study of rehabilitation for the hard-of-hearing. Prerequisites: Speech Pathology and Audiology 3600, 5600, or permission of the instructor.

5652. Aural Rehabilitation II. (3) S. Continued study of aural rehabilitation including medical, psychological, vocational aspects and amplification systems. Prerequisites: Speech Pathology and Audiology 3600, 5600, 5651.

5653. Advanced Principles of Audiology. (1-4) On demand. Advanced principles of hearing habilitation and rehabilitation, may include hearing conservation, instrumentation, psychoeducational aspects of hearing disorders and related topics. May be repeated for a maximum of six semester hours by permission of the chairman of the department.

5700. Advanced Clinical Practice. (1 to 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.

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

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 5900.

5950. Thesis. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the chairman of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

STUDENT LEADERSHIP

3000. Student Government Leadership. (2-0-2) May be taken Pass-Fail only. Restricted to sophomores and juniors. A seminar in student government with emphasis on governance in higher education, the administration of Eastern Illinois University, financing of higher education, the student's role in governance, and the development of leadership skills.

STUDENT TEACHING

UNDERGRADUATE COURSES

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

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

4301. Teaching Practicum. (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.

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.

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.

3333. Advanced Interpretation. (3-0-3) F, S. Interpretation of literature in traditional and experimental styles. Introduction to the aesthetics of readers and chamber theatre. Prerequisite: Theatre Arts 1133 or permission of the instructor.

3357. Scene Design. (3-3-3) F. Consideration of the design sequence from analysis of the script to the completion of production drawings; practical experience. Prerequisite: Theatre Arts 2257 or permission of the instructor.

3358. Design and History of Costume. (3-3-3) S. History of costume from the early Egyptians to the present day. Costume design for theatrical production.

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.

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.

3920 (4920). Oral Interpretation of Poetry. (3-0-3) F-even numbered years. A study of the experimental nature of poetry and the recreation of the experience through oral performance. General forms and the works of two or three poets will be considered. Prerequisites: Theatre Arts 1133, 3333, or permission of the instructor.

3960 (4960). Oral Interpretation of Prose Fiction. (3-0-3) S. A study of four Twentieth Century

novelists through close literary analysis and oral performance. Particular attention will be given to the problems of point-of-view. Prerequisites: Theatre Arts 1133, 3333, or permission of the instructor.

3990. Summer Study in Ireland. (0-0-6) Su. Independent research in Theatre Arts. Six weeks of residence in the Republic of Ireland will be required. Open to juniors and seniors.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4810. Summer Theatre. (Arr.-Arr.-6 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.

3000. Human Physiology. (2-2-3) A study of the basic physiological principles is followed by experimental studies of the organ-systems of man. Prerequisite: Life Science 1000 or a course in biochemistry. Credit is not given for both Zoology 3000 and 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. Credit is not given for both Zoology 3000 and 3100.

3150. Heredity, Evolution and Society. (2-0-2) The application of heredity and evolutionary principles to pertinent contemporary social problems. Prerequisite: Life Science 1000 or equivalent.

3200. Genetics. (2-2-3) F, S. The fundamental principles of genetics (classical, molecular, and population) stressing applications to all organisms. Prerequisite: Zoology 1010. Not open to those with credit or registration in Botany 3361.

3300. Vertebrate Natural History. (2-3-3) The natural history of vertebrates including distribution, reproduction, economic importance, evolution, and classification. Prerequisite: Zoology 1010.

3600. Parasitology. (2-2-3) 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 head prior to registration. Prerequisite: Fifteen semester hours of zoology and permission of instructor and chairman of the department. May be taken for a maximum of four semester hours.

4490. Seminar in Zoology. (0-2-1) F, S. A seminar in current zoological literature. Prerequisite: Nine semester hours of zoology. May be taken twice for credit.

4510. Microtechnique. (0-6-3) S. Methods and practice in the preparation of microscope slides of animal tissues. A collection of slides may be made for later use in teaching. Prerequisite: Sixteen semester hours of zoology.

4540. Histology. (1-4-3) The structure, functions, and development of tissues, primarily human. Laboratory study is combined with discussion of the cytological basis for understanding normal and abnormal structure in all vertebrates. Prerequisite: Zoology 2200; organic chemistry recommended.

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Cytology. (1-4-3) F. A study of the structure and function of cells and their component organelles; cytochemical theory and techniques. Prerequisite: Zoology 4510 or permission of the instructor. Zoology 4540 recommended.

4760. Invertebrate Zoology. (2-2-3) S. The phylogeny, morphology, physiology, ecology, geographical distribution and economic importance of invertebrate animals. Prerequisite: Sixteen semester hours of zoology.

4764 (5260). Invertebrate Field Studies. (2-3-3) Su, S. Identification, relationships, life histories and adaptations of regional invertebrates not covered fully in other courses. Aquatic and soil forms emphasized. Prerequisite: Sixteen semester hours of zoology; Zoology 4760 recommended.

4766. Advanced Entomology. (2-4-4) S. A study of the common families of the major insect orders. Prerequisite: Zoology 3700.

4769. Fisheries Management. (1-4-3) 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. (2-3-3) F. A study of mammals with emphasis on classification, distribution, natural history and ecology. Prerequisites: Zoology 2000 or 2100, 3300.

4800. Terrestrial Ecology. (2-3-3) Su, S. Interrelationships among animal populations, biotic communities, and physical environments in terrestrial ecosystems. Prerequisites: Life Science 3010 and eight semester hours of zoology.

4810. Limnology. (1-4-3) F. The physical environment and biological communities involved in fresh water ecosystems. Prerequisites: One year of chemistry; ten semester hours of zoology.

4850. Comparative Vertebrate Physiology. (2-2-3) F. A comparison of physiological activities in fish, amphibians, repitiles, birds and mammals exhibited in their natural environment. Prerequisites: Zoology 3000 or 3100; one course in organic chemistry, 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) Analysis of the geographical distribution of recent animals. Prerequisite: Zoology 4800 or Botany 4611.

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: Zoology 4760, 4800, or permission of the instructor.

5255. Protozoology. (3) F. The morphology, physiology, ecology and life histories of free living and parasitic protozoa. Includes laboratory and field studies. Prerequisites: Eight semester hours of zoology and eight semester hours of chemistry.

5355. Arthropodology. (3) F. A study of arthropods exclusive of insects, with emphasis on terrestrial forms. Prerequisite: Sixteen semester hours of zoology; Zoology 3700 and 4760 recommended.

5375. Wildlife Management. (3) F. The principles of wildlife management with emphasis on terrestrial game animals; their ecology, life histories and conservation. Prerequisite: Eight semester hours of zoology including Zoology 3300; Zoology 4774 and 4800 recommended.

5380. Animal Behavior. (3) S. Theoretical and experimental studies of the reactions of animals to various stimuli. Prerequisite: Sixteen semester hours of zoology, or permission of the instructor.

5400. Cell Physiology. (4) S. A study of the fundamental physical and chemical processes which underlie cellular structure and function. Prerequisites: Zoology 3100 and one course in organic chemistry.

5410. Developmental Zoology. (4) S. An incisive study emphasizing both classical and recent contributions to the understanding of development of living embryos. Prerequisites: Sixteen semester hours of biological science including Zoology 2200 and 2100 or 2000. Organic chemistry required, biochemistry recommended.

5420. Endocrinology. (4) S. A study of the endocrine glands, the action of hormones, and the general features of the endocrine system. Prerequisites: Sixteen semester hours of zoology, and at least one course in organic chemistry.

5900. Methods in Biological Research. (2) 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.

5950. Thesis. (3 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

XI. STATISTICS

SUMMARY OF ENROLLMENTS

Fall Quarter, 1973, through Summer Term, 1974

UNIVERSITY

Full-Time, On Campus		Fall	Spg.	Sum.*
Seniors:	Men	850	839	389
	Women	880	811	472
	Total	1730	1650	861
Juniors:	Men	872	801	210
	Women	974	856	319
	Total	1846	1657	529
Sophomores:	Men	704	721	142
	Women	872	852	140
	Total	1576	1573	282
Freshmen:	Men	994	776	126
	Women	1041	809	128
	Total	2035	1585	254
Graduates:				
Fifth Year	Men	218	279	415
	Women	99	133	279
	Total	317	412	694
Sixth Year	Men	9	9	38
	Women	4	6	13
	Total	13	15	51
Total: (full-time)	Men	3647	3425	1320
	Women	3870	3467	1351
	Total	7517	6892	2671

Part-Time, On Campus		Fall	Spg.	Sum.*
Seniors:	Men	37	52	45
	Women	42	32	73
	Total	79	84	118
Juniors:	Men	22	18	15
	Women	15	26	39
	Total	37	44	54
Sophomores:	Men	14	11	15
	Women	14	16	22
	Total	28	27	37
Freshmen:	Men	6	13	14
	Women	18	21	23
	Total	24	34	37
Graduates:				
Fifth Year	Men	146	154	85
	Women	138	139	96
	Total	284	293	181
Sixth Year	Men	42	43	14
	Women	24	30	22
	Total	66	73	36
Workshops:	Men	—	—	425
	Women	—	—	573
	Total			998
Totals: (part-time)	Men	267	197	613
	Women	251	169	848
	Total	518	366	1461
Total On Campus	Men	3914	3716	1933
	Women	4121	3731	2199
	Total	8035	7447	4132
Full-Time Equivalent (resident)		7716	7110	3209

Part-Time, Off Campus		Fall	Spg.	Sum.*
	Men	422	434	—
	Women	350	347	—
	Total	772	781	—
Total University:	Men	4336	4150	1933
	Women	4471	4078	2199
	Total	8807	8228	4132
Full-Time Equivalent		7904	7294	3209
Laboratory School				
	Boys	203	198	—
	Girls	192	192	—
	Total	395	390	—

SUMMARY OF DEGREES AWARDED

September 1, 1973, through August 31, 1974

Degree	Dec. 1973	May 1974	Aug. 1974
Specialist in Education	6	14	10
Master of Arts	20	19	52
Master of Business Administration	5	13	8
Master of Science	11	18	27
Master of Science in Education	46	58	101
Master of Science in Library Science	—	2	5
Bachelor of Arts	73	147	71
Bachelor of Arts—Board of Governors Degree	16	24	26
Bachelor of Music	3	13	5
Bachelor of Science	72	164	98
Bachelor of Science in Business	62	144	46
Bachelor of Science in Education	271	429	123
Bachelor of Science in Home Economics	14	23	6
Bachelor of Science in Industrial Technology	5	11	1
Bachelor of Science in Recreation	6	8	8
Total	610	1087	587

XII. FACULTY, 1974-75

EASTERN ILLINOIS UNIVERSITY

Charleston

(Date of joining staff in parentheses)

ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

President

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

ACADEMIC AFFAIRS

Provost and Vice President For Academic Affairs

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

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

Dorothy J. Marker, B.S., Indiana State University, Faculty Assistant, Academic Affairs (1974) (Part-time)

COLLEGE OF ARTS AND SCIENCES

Lawrence A. Ringenberg, Ph.D., The Ohio State University, Dean (1947)
- Ken E. Hadwiger, Ph.D., University of Oklahoma, Assistant Dean (1964)
- Willa M. Hemmons, Ph.D., Case Western Reserve University, Chairman, Afro-American Studies (1973)
- William M. Cloud, Ph.D., University of Wisconsin, Chairman, Pre-Engineering Studies (1962)
- Robert J. Smith, Ph.D., The University of Iowa, Chairman, Health Professions Studies (1955)
- Raymond A. Plath, Ph.D., University of Wisconsin, Chairman, Social Science Studies (1946)
- Leonard Durham, Ph.D., University of Illinois, Director, Division of Life Sciences (1955)

GRADUATE SCHOOL

Wayne L. Thurman, Ph.D., Purdue University, Acting Dean (1953)

SCHOOL OF BUSINESS

Thomas O. Jones, Jr., D.B.A., George Washington University, Dean (1974)
- Kathleen Anne Bennett, B.S. in Business Education, 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)
- Charles Kofoid, Ed.D., University of Nebraska, Administrative Assistant (1970)[1]

[1]Resigned November 30, 1974.

CENTER FOR EDUCATIONAL STUDIES

Charles L. Joley, Ed.D., University of Illinois, Coordinator, Vocational-Technical Education and Director of Occupational Education (1970)
- Russell L. Nichols, M.S., Purdue University, Coordinator of Area Services (1973)
- Ann E. Jackson, D.Ed., Arizona State University (1958)
- Donald L. Rogers, D.Ed., University of Nebraska, Associate Professor (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)
Kathryn Petersen, M.S., Eastern Illinois University, Assistant to Dean (1974)
Barbara Joley, M.S. in Ed., University of Illinois, Assistant (1974) (fall)

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

Wayne D. Coleman, D.Ed., University of Northern Colorado, Dean (1957)

LIBRARY SERVICES

B. Joseph Szerenyi, D.Pol.S., Elizabeth University, Hungary, Director (1967)

CONTINUING EDUCATION AND COMMUNITY SERVICES

George Hackler, Jr., M.S. in Ed., Eastern Illinois University, Director (1967)
Dan Hockman, M.S. in Ed., Eastern Illinois University, Assistant Director (1965)
Barbara Joley, M.S. in Ed., University of Illinois, Assistant (1974) (spring)

COOPERATIVE EDUCATION INTERN PROGRAM

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

AUDIO-VISUAL CENTER

Gene Scholes, Ph.D., Southern Illinois University, Director (1966)
Willis Waltman, Ed.S., Eastern Illinois University, Instructional Designer (1969)

BOARD OF GOVERNORS DEGREE PROGRAM

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

SPECIAL PROJECTS

Susan J. Long, B.S., Eastern Illinois University, Faculty Assistant in Career Education Resources Laboratory (1974)
Marla Peterson, Ph.D., Ohio State University, Assistant Professor, and Project Director, Instructional Management Program to Advance Curriculum Training in Vocational/Career Education Project (1970)
Carol Sanders, M.S. in Ed., Wisconsin State University, Instructor, Career Education Resource Laboratory (1973)
Joyce A. Spencer, B.S., Eastern Illinois University, Faculty Assistant, Career Education Resource Laboratory (1973) (Part-time)
Betty N. Waltman, B.S., Indiana State University, Faculty Assistant, Career Education Resource Laboratory (1973) (Part-time)

STUDENT ACADEMIC SERVICES

Samuel J. Taber, Ph.D., Southern Illinois University, Dean (1960)

Academic Advisement

William G. Hooper, M.S.Ed., Illinois State University, Director (1962)
Thomas E. McDevitt, M.A., Southern Illinois University, Advisor (1966)
Robert G. Winkleblack, M.S. in Ed., Eastern Illinois University, Advisor (1966)
Calvin B. Campbell, Adv. C., University of Illinois, Advisor (1966)
Janet F. Holley, M.S. in Ed., Eastern Illinois University, Advisor (1968)
Vanlou Trank, M.S., Indiana University, Advisor (1970)
Arthur L. Snider, M.S., Ball State University, Advisor (1970)
Janice L. Rambo, M.S. in Ed., Western Illinois University, Advisor (1972)

Community College Relations

Samuel J. Taber, Ph.D., Southern Illinois University, Dean, Student Academic Services (1960)

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)
Molly Evans, B.A., Eastern Illinois University, Assistant to Director (1974)

STUDENT AFFAIRS

Vice President For Student Affairs

Glenn D. Williams, Ph.D., The Ohio State University (1960)
Arlene Fowler, Ph.D., Washington State University, Assistant to Vice President (1969)

Admissions, and High School Relations

Murray R. Choate, M.S. in Ed., Southern Illinois University, Director of High School Relations (1962)
Roger L. Haberer, M.S. in Ed., Eastern Illinois University, Associate Director, Admissions Processing (1972)
Marvin Shade, M.S. in Ed., Eastern Illinois University, Assistant Director, High School Relations, (1973)
John J. Hinko, Jr., M.S., Western Illinois University, Admissions Counselor (1974)
Pamela Hadwiger, M.S., Ed., Eastern Illinois University, Admissions Counselor (1974)

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. in Ed., Indiana University, Counselor (1959)
Claud D. Sanders, Ed.D., University of Illinois, Counselor (1966)

FINANCIAL AIDS

Ross C. Lyman, M.S., Indiana State University, Director (1961)
Sue C. Sparks, M.S. in Ed., Eastern Illinois University, Associate Director (1966)
Lois M. Kramer, M.A., Boston University, Administrative Assistant (1966)
Elmer Pullen, M.S., Eastern Illinois University, Counselor (1970)

HEALTH SERVICES

Jerry D. Heath, M.D., University of Illinois, Director (1956)
Ken Momtaz, M.D., University of Tehran, University Physician (1974) (fall semester)
Lee A. Steward, M.D., University of Illinois, University Physician (1975-spring)
Myron Boylson, M.D., University of Chicago, University Physician (1968) (fall semester)

INTERNATIONAL STUDENTS

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

Placement

James F. Knott, Ed.D., Northern Illinois University, Director (1957)
Robert E. Jones, M.S., Indiana State University, Assistant Director (1963)

STUDENT ACTIVITIES AND ORGANIZATIONS

William L. Clark, M.S. in Ed., Eastern Illinois University, Director (1968)
Robert G. Cabello, M.A., Eastern Michigan University, Assistant Director (1974)

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. in Ed., Eastern Illinois University, Director (1966)
Edwin T. McCawley, Assistant Director (1969)
Stephen Grove, B.S. in Bus., Eastern Illinois University, Assistant Director (1972)
Phillip Lindberg, B.S., Eastern Illinois University, Director of Arrangements (1973)

VETERANS SERVICES

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

STUDENT HOUSING

Donald A. Kluge, D.Ed., Indiana University, Dean (1957)
Louis V. Hencken, M.S. in Ed., Eastern Illinois University, Associate Dean (1967)
Richard G. Enochs, Ed.S., Eastern Illinois University, Assistant Dean and Director, Married Student Housing (1969)
Mary M. Smith, M.S., Indiana University, Administrative Assistant (1970)

Residence Hall Food Service

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

Residence Hall Counselors

Jo Anne Stuebe, M.S. in Ed., Eastern Illinois University (1962)
Barbara A. Busch, Adv.C., University of Illinois (1964)
Doris J. Enochs, M.S. in Ed., Eastern Illinois University (1967)
Margaret J. Reed, Adv.C., University of Illinois (1967)
Diane E. deLaet, M.Ed., University of Miami (1971)
Keith Kohanzo, M.S. in Ed., Eastern Illinois University (1971)
Timothy L. Burke, M.S. Ed., Eastern Illinois University (1972)
Terrence Webb, M.A., University of North Dakota (1972)
Harry Nicklaus, M.S., Bowling Green State University (1973)
Barbara Bruszewski, B.S. in Ed., Eastern Illinois University, (1973)
Rita Pell, M.A., Bradley University (1974)
Mary Ellen Shanesey, B.S., Central Michigan University (1974)
John R. Alexander, M.S., East Texas State University (1974)
Gerald Elikofer, B.A., Bowling Green State University (1974)

BUSINESS SERVICES

Vice President for Business Services

Harley J. Holt, M.S., University of Wisconsin (1963)
Marion L. Zane, M.S. in Ed., Eastern Illinois University, Controller (1965)
Everett R. Alms, Superintendent of Physical Plant (1965)
Edward L. Dever, B.S. in Ed., Eastern Illinois University, Internal Auditor (1974)

ADMINISTRATIVE AFFAIRS

Vice President for Administrative Affairs

Martin Schaefer, Ph.D., The University of Iowa (1958)
Wayne S. Owens, Ed.D., Indiana University, Director, Institutional Research and Administrative Associate (1969)
Robert H. Weidhuner, B.S., Southern Illinois University, Assistant, Administrative Studies (1966)
John Morrisey, M.S. in Ed., Eastern Illinois University, Budget Officer, (1968)

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

Jimmie Franklin, Ph.D., University of Oklahoma, Director (1970)

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. in Ed., Illinois State University, Associate Director of Athletics (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. in Ed., Eastern Illinois University, Director, Information and Publications (1964)
Charles Titus, M.A., Eastern Illinois University, Assistant Director, Alumni Services and Assistant, University Relations (1972)
David Kidwell, B.S., Eastern Illinois University, Director, Sports Information and Assistant, Information and Publications (1972)

INSTRUCTIONAL STAFF

* Denotes department chairmen

** Denotes acting department chairmen

A

Dewey F. Abell, M.L.S., University of California, Assistant Professor, Library. (1969)
William P. Abramsen, M.E., Pennsylvania State University, Instructor, Industrial Technology. (1974)
Nicholas A. Adesso, M.S., University of Illinois, Instructor, Health Education. (1974)
David C. Ahlstrom, Ph.D., Eastman School of Music, Associate Professor Music. (1967) (On Leave)
Richard H. Alexander, M.B.A., Eastern Illinois University, Instructor, Marketing. (1974) (Part-time)
Dewey H. Amos, Ph.D., University of Illinois, Professor, Geography and Geology. (1965)
Gary Anderson, M.B.A., University of Illinois, Assistant Professor, Management. (1975) (Part-time)
Leslie T. Andre, D.Pol.S., Franz Josef Royal University, Associate Professor, Library. (1962)
Richard D. Andrews, Ph.D., University of Illinois, Associate Professor, Zoology. (1966) (On Sabbatical Leave, spring semester)
Rudolph D. Anfinson, Ph.D., University of Minnesota, Professor, Educational Psychology and Guidance. (1940)

David P. Appleby, Ph.D., Indiana University, Professor, Music. (1971)
Mary B. Armstrong, Ph.D., University of Illinois, Assistant Professor, Speech Pathology and Audiology. (1968)
Charles B. Arzeni, Ph.D., University of Michigan, Associate Professor, Botany. (1965)
Mary E. Atchison, M.S. in Ed., Eastern Illinois University, Instructor, Physical Education. (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

Jumuna Bai, Ph.D., Wayne State University, Associate Professor, Sociology-Anthropology. (1967)
Zeno E. Bailey, Ph.D., The Ohio State University, Professor, Botany. (1969)
Weldon N. Baker, Ph.D., Columbia University, Professor, Chemistry. (1958)
Harold E. Balbach, Ph.D., University of Illinois, Assistant Professor, Botany. (1966)
Wesley E. Ballsrud, M.A., The University of Iowa, Associate Professor, Accountancy.* (1964)
Robert Barford, Ph.D., Indiana University, Associate Professor, Philosophy. (1968) (On Leave)
Joel Barkmeier, M.A., University of South Dakota, Assistant Professor, Speech Pathology and Audiology and Education. (1973)
Anita M. Barta, M.S., University of New Mexico, Instructor, Physical Education. (1970) (On leave, 1974-75)
Lawrence W. Bates, M.S., Brigham Young University, Assistant Professor, Economics. (1970)
Kandy Baumgardner, Ph.D., Utah State University, Assistant Professor, Zoology. (1973)
Steven A. Becker, Ph.D., The University of Iowa, Associate Professor, Botany. (1968)
Randall H. Best, Ph.D., Southern Illinois University, Associate Professor, Psychology. (1968)
Christian Beurskens, M.B.A., Boise State University, Instructor, Management. (1975) (Part-time)
Mary A. Bialek, M.Ed., Pennsylvania State University, Assistant Professor, Music. (1969)
Richard Blackstone, Ph.D., Brown University, Assistant Professor, Philosophy. (1974)
Cyrus E. Blair, D.Ed., University of Oregon, Associate Professor, Elementary and Junior High School Education. (1970)
Clarence Blanchette, M.A., The University of Iowa, Assistant Professor, Theatre Arts. (1973)
Bonnie K. Blanck, B.A., University of Illinois, Faculty Assistant in Physical Education. (1973)
David N. Block, Ph.D., New York University, Assistant Professor, English. (1972)
Paul G. Bodine, M.A., Washington University, Assistant Professor, Art. (1966)
Virginia Bodine, M.A., University of Illinois, Instructor in Art. (1967) (Part-time)
Daniel J. Bolin, M.Ed., University of Illinois, Assistant Professor, Health Education. (1970)
Mark R. Bomball, Ph.D., University of Mississippi, Assistant Professor, Management. (1969)

Fred J. Bouknight, Ed.D., Columbia University, Professor, 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)
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, Associate Professor, Physics. (1963)
James M. Brinkman, Ed.D., University of Illinois, Associate Professor, Music. (1970)
Robert E. Brown, M.A., Niagara University, Assistant Professor, English. (1969)
Rose Ann Bryce, D.Ed., University of Northern Colorado, Professor, Business Education and Administrative Office Management. (1969)
Ewen L. Bryden, Ph.D., The Ohio State University, Associate Professor, Recreation.* (1969)
David H. Buchanan, Ph.D., University of Wisconsin, Assistant Professor, Chemistry. (1971)
William F. Buckellew, Ed.D., University of Arkansas, Professor, Physical Education.* (1962)
Rodney Buffington, M.S. in Ed., Eastern Illinois University, Instructor, Art and Education. (1969)
Ronald L. Butler, B.S., Eastern Illinois University, Faculty Assistant, Botany. (1973) (Part-time)
William A. Butler, Ph.D., University of Illinois, Professor, Physics.* (1970)
Robert Y. Butts, M.S., Virginia Polytechnic Institute and State University, Assistant Professor, Home Economics. (1971)

C

Betty J. Campbell, Adv.C., University of Illinois, Assistant Professor, Business and Education. (1969)
Eugene R. Carey, Ph.D., The University of Iowa, Associate Professor, Management. (1968)
Joseph E. Carey, Ed.D., Indiana University, Professor, Elementary and Junior High School Education. (1958)
Robert A. Carey, P.E.D., Indiana University, Professor and Coordinator of Graduate Studies, Physical Education. (1953)
Gerald F. Carr, Ph.D., University of Wisconsin, Associate Professor, Foreign Languages. (1968) (On sabbatical leave, spring semester.)
William B. Cash, Ph.D., Purdue University, Associate Professor, Speech-Communication. (1964) (On leave)
Gloria Ceide-Echevarria, Ph.D., University of Illinois, Professor, Foreign Languages. (1965)** (fall)
Judith K. Chapman, B.S., The Ohio State University, Faculty Assistant, Home Economics. (1973) (Part-time)
Max K. Chapman, Ph.D., Kent State University, Assistant Professor, Zoology. (1972)
Dayton K. Chase, D.Ed., University of North Dakota, Professor Business Education and Administrative Office Management. (1968)
Carrie C. Chen, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1968)
Robert P. Chen, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1968)

Yung Ping Chen, Ph.D., University of Maryland, Professor, Political Science. (1966)
Earl D. Christman, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Speech-Communication. (1973) (Part-time)
Ronald H. Clinton, M.Ed., University of Arizona, Lecturer in 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, Industrial Technology.* (1957)
Joseph T. Connelly, Ed.D., University of Illinois, Professor, Political Science.* (1958)
James R. Cook, Ph.D., Southern Illinois University, Assistant Professor, Health Education. (1970)
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)
Calvin Countryman, D.Ed., Pennsylvania State University, Professor, Art. (1945)
Delmar Crabill, Ph.D., University of Illinois, Associate Professor, Mathematics. (1963)
John M. Craft, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Physical Education. (1970)
Francis H. Craig, Ph.D., Southern Illinois University, Associate Professor, Elem. & 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, Associate Professor, Home Economics Education.* (1968)
Richard L. Crouse, M.A., University of Wisconsin, Assistant Professor, Foreign Languages. (1966)
George L. Cunningham, Ph.D., University of California, Berkeley, Professor, Chemistry. (1961)
Carleton E. Curran, Ph.D., University of Wisconsin, Associate Professor, History. (1966)

D

Roger L. Darding, Ph.D., University of Illinois, Assistant Professor, Botany. (1970)
Pinaki Das, A.M., University of Illinois, Instructor in Management (1974) (Part-time)
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)
Alvie D. Davis, Ph.D., University of California, Los Angeles, Assistant Professor, Physics. (1970) (On leave 1974-75)
Jack W. Dean, M.S. in Ed., Northern Illinois University, Lecturer, Physical Education. (1969)
Vincent R. DeCarlo, M.S., University of Tennessee, Assistant Professor, Management. (1970) (On leave 1974-75)

Garret W. DeRuiter, M.F.A., Southern Illinois University, Assistant Professor, Art. (1965) (On sabbatical leave, fall semester)
Marilyn DeRuiter, M.S.Ed., Southern Illinois University, Instructor, Physical Education (1972)
Helen L. Devinney, A.M., Columbia University, Assistant Professor, Home Economics. (1943)
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)
Gerhardt W. Ditz, Ph.D., Columbia University, Professor, Sociology-Anthropology. (1971)
Arleen Docter, B.S., LaCrosse State Teachers College, Faculty Assistant in Physical Education. (1974)
Patrick J. Docter, Ph.D., Purdue University, Associate Professor, Zoology. (1969)
Betty Dodson, M.A., St. Louis University, Instructor in Speech Pathology and Audiology. (1974)
Ernest E. Dolson, M.S., Indiana State University, Assistant Professor, Mathematics and Education. (1968)
Donald Dolton, M.A., Oklahoma State University, Assistant Professor, English. (1966)
Earl Doughty, Ph.D., Southern Illinois University, Associate Professor, Elementary and Junior High School Education. (1963)
Ruth L. Dow, M.S., University of Illinois, Instructor, Home Economics. (1969)
Dale D. Downs, Ed.D., Indiana University, Associate Professor, Elem. & Junior High School Education. (1963)
Martha I. Drew, M.Ed., University of Illinois, Assistant Professor, Management. (1958)
Craig A. Dudczak, M.A., Eastern Illinois University, Instructor, Speech Communication. (1974)
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)
Olga Durham, M.A., Eastern Illinois University, Instructor in Art. (1974) (Part-time)
Genevra Dvorak, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1964)

E

Hannah N. Eads, M.S. in Ed., Eastern Illinois University, Assistant Professor, 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, Associate Professor, Marketing. (1975) (Part-time)
Snowden L. Eisenhour, Ph.D., University of Illinois, Professor, Physics. (1961)
E. Duane Elbert, Ph.D., Indiana University, Associate Professor, History. (1966)
Carol E. Elder, Ph.D., University of Pittsburgh, Associate Professor, English. (1966)

Thomas L. Elliott, D.Ed., University of Northern Colorado, Professor, Business Education and Administrative Office Management.* (1969)
Jerry W. Ellis, Ph.D., Oklahoma State University, Associate Professor, Chemistry. (1966)
Walter L. Elmore, M.A., University of Kentucky, Associate Professor, Physical Education and Education. (1948)
Carl E. Emmerich, D.Ed., The Pennsylvania State University, Associate Professor, Art. (1962)
Ruth Erckmann, M.A., University of South Dakota, Assistant Professor, Mathematics. (1963)
Clifford H. Erwin, D.Ed., Indiana University, Professor, Industrial Arts Education. (1956)

F

Clifford L. Fagan, Ph.D., The University of Iowa, Professor, Marketing.* (1949)
Marilyn L. Faris, M.A., Ball State University, Assistant Professor in Elementary and Junior High School Education. (1974)
John R. Faust, Ph.D., University of North Carolina, Professor, Political Science. (1966)
Karen Ferguson, Ph.D., Bryn Mawr College, Assistant Professor in Chemistry. (1974)
Max B. Ferguson, Ph.D., The University of Iowa, Professor, Zoology. (1950)
Paul A. Filter, Ed.D., University of Nebraska, Associate Professor, Secondary Education and Foundations. (1970)
Charles L. Finke, B.A., Southern Illinois University, Faculty Assistant in Management. (1974) (Part-time)
Patricia Flaugher, M.S., Southern Illinois University, Instructor, Physical Education. (1969)
M. Lorraine Flower, Ph.D., University of Oregon, Professor, Physical Education. (1965)
Thomas W. Floyd, Ed.D., University of Illinois, Associate Professor, Elementary 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 and Junior High School Education. (1964)
Arlen L. Fowler, Ph.D., Washington State University, Associate Professor, History. (1969) (Sabbatical leave, spring semester)
Frank A. Fraembs, M.S., University of Illinois, Assistant Professor, Zoology. (1964)
Jimmie L. Franklin, Ph.D., University of Oklahoma, Associate Professor, History. (1970)
Richard C. Funk, Ph.D., University of Kansas, Associate Professor, Zoology. (1965) (Sabbatical leave, spring semester)

G

E. G. Gabbard, Ph.D., The University of Iowa, Professor, Theatre Arts.* (1947)
Lucina P. Gabbard, Ph.D., University of Illinois, Assistant Professor, English. (1968)
James G. Gard, B.S., Nicholls State University, Faculty Assistant, Mathematics. (Part-time) (1972)
Walter C. Garland, Ph.D., The Ohio State University, Professor, Educational Administration and Supervision. (1968)** (spring)

Donald P. Garner, Ph.D., Wayne State University, Professor, Speech. (1963)
James F. Giffin, Ph.D., Northwestern University, Professor, Management. (1947) (Sabbatical leave, spring)
Frank L. Gile, M.A., University of Nebraska, Assistant Professor, Management. (1974) (Part-time)
Michael A. Goodrich, Ph.D., Pennsylvania State University, Professor, Zoology. (1964)
Gerald L. Gossett, M.S., Indiana State University, Instructor, Physical Education. (1969)
Timothy D. Gover, M.S., University of Illinois, Assistant Professor, Management. (1963)
Louis M. Grado, Ph.D., The University of Iowa, Professor, Elementary and Junior High School Education.* (1955)
Grant G. Gray, Ph.D., University of South Dakota, Associate Professor, Botany. (1966)
Robert M. Gray, M.S., Southern Illinois University, Instructor in Health Education. (1974) (Part-time)
Carl K. Green, Ed.D., University of Houston, Professor, Educational Psychology and Guidance. (1958)
Norma C. Green, M.Ed., University of Southern Mississippi, Assistant Professor, Physical Education. (1966)
William E. Green, Ph.D., The Ohio State University, Professor, Management.* (1966)
Raymond V. Griffin, Ed.D., University of Northern Colorado, Professor, Industrial Arts Education. (1958)
Jerry Griffith, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1966)
Waldo Grigoroff, M.S. in Ed., University of Illinois, Assistant Professor, History and Social Sciences and Education. (1961)
Karl M. Grisso, M.L.S., Indiana University, Assistant Professor, Library. (1969)
John C. Guckert, Ph.D., The Ohio State University, Assistant Professor, Secondary Education and Foundations. (1968)
Gary L. Gueldner, M.S.Ed., Eastern Illinois University, Assistant Professor, Accountancy. (1967)

H

Ken E. Hadwiger, Ph.D., University of Oklahoma, Professor, Speech-Communication. (1964)
Lavern M. Hamand, Ph.D., University of Illinois, Professor, History. (1957)
Julian J. Hamerski, Ph.D., University of the Pacific, Associate Professor, Chemistry. (1963)
Robert R. Hancock, Ph.D., University of Illinois, Associate Professor, Mathematics and Education. (1965)
E. Mac Hansen, M.P.A., Brigham Young University, Assistant Professor, Political Science. (1973)
Burton E. Hardin, D.M.Ed., University of Oklahoma, Associate Professor, Music. (1969)
Stanley G. Harris, B.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. Haught, Ph.D., University of Illinois, Assistant Professor, English and Education. (1970)
Edith M. Hedges, M.S., University of Wisconsin, Assistant Professor, Home Economics. (1966) (Sabbatical leave 1974-75)
Frank H. Hedges, M.S., University of Illinois, Assistant Professor, Zoology. (1965)
Carol M. Helwig, Ed.D., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1969)
Willa M. Hemmons, Ph.D., Case Western Reserve University, Assistant Professor, Sociology-Anthropology. (1973)
Giles L. Henderson, Ph.D., Indiana University, Assistant Professor, Chemistry. (1966)
Robert E. Hennings, Ph.D., University of California, Berkeley, Professor, History. (1962)**
James A. Herauf, D.H.S., Indiana University, Associate Professor, Health Education. (1965)
Billy J. Heyduck, D.Ed., Pennsylvania State University, Associate Professor, Art. (1966)
Harold L. Hillyer, M.M., University of Southern California, Assistant Professor, Music. (1972)
Dan M. Hockman, M.S. in Ed., Eastern Illinois University, Assistant Professor, History and Social Sciences and Education. (1965)
Arnold J. Hoffman, M.S., University of Illinois, Assistant Professor, Chemistry. (1945)
Arthur C. Hoffman, Ph.D., University of Illinois, Professor, Accountancy. (1966)
Bertrand P. Holley, M.A., Northwestern University, Associate Professor, Management. (1946)
Charles Hollister, Ph.D., University of Pennsylvania, Professor, Political Science. (1967)
Gary L. Holt, Ph.D., West Virginia University, Assistant Professor, Psychology. (1972)
Janet M. Hooks, Ph.D., University of Illinois, Associate Professor, Economics. (1963)
Richard L. Hooser, Ph.D., Southern Illinois University, 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 in Music. (1974)
Nai-chao Hsu, Ph.D., Washington University, Professor, Mathematics. (1966) (Sabbatical leave, fall semester)
Glen E. Hubele, Ph.D., University of Illinois, Associate Professor, Educational Psychology and Guidance. (1968)
Richard L. Hummel, M.A., Indiana University, Assistant Professor, Sociology-Anthropology. (1969)
Lawrence B. Hunt, Ph.D., University of Wisconsin, Associate Professor, Zoology. (1967)
Robert W. Hussey, D.Ed., University of Northern Colorado, 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. in Ed., Southern Illinois University, Assistant Professor, Library (1964)
Donald Ivory, M.S., Central Missouri State, Lecturer in Physical Education. (1974)

J

Ann E. Jackson, D.Ed., Arizona State University, Professor, Elem. & 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 in Music. (1974)
William S. James, Ph.D., University of Tennessee, Associate Professor, Zoology. (1970)
John W. Jennings, M.M., Southern Methodist University, Assistant Professor in Music. (1974) (Part-time)
Charles H. Johnson, J.D., University of Wisconsin, Associate Professor, Management. (1967)
Dorothe L. Johnson, Adv. C., University of Illinois, Assistant Professor, Recreation. (1968)
June Johnson, D.M.A., University of Illinois, Professor, Music. (1960)
Robert G. Johnston, Ph.D. University of Illinois, Assistant Professor in Speech Pathology and Audiology. (1974) (Part-time)
Barbara Joley, M.S. in Ed., University of Illinois, Instructor, Home Economics. (1974, fall) (Part-time)
Annie Lee Jones, Ph.D., University of Michigan, Assistant Professor, Recreation. (1972)
Austin Jones, M.B.A., Eastern Illinois University, Instructor, Accountancy. (1969)
George H. Jones, D. Phil., Oxford University, Professor, History. (1966)
Thomas O. Jones, Jr., D.B.A., George Washington University, Dean, School of Business. (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)
Ellen A. Keiter, M.S., University of Maryland, Instructor, Chemistry. (1973)
Richard L. Keiter, Ph.D., University of Maryland, Associate Professor, Chemistry. (1969) (Sabbatical leave, spring semester)
John J. Kelleher, Ph.D., University of Pittsburgh, Professor in 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)

John R. Keough, M.A., Marquette University, Instructor, Theatre Arts. (Leave, spring semester). (1971)
Nancy O. Keppler, M.S., University of Illinois, Instructor, Home Economics. (1968)
William J. Keppler, Ph.D., University of Illinois, Professor, Zoology. (1965)
Rhoderick E. Key, M. Mus. Ed., Southern Illinois University, Assistant Professor, Music. (1966)*
Eun-Ja Kim, Ph.D., University of Southern Mississippi, Assistant Professor, Elementary and Junior High School Education. (1973)
Ha Poong Kim, Ph.D., Boston University, Associate Professor, Philosophy.* (1967)
Paul F. Kirby, Ph.D., University of Pittsburgh, Professor, Foreign Languages. (1964)
Judd Kline, Ph.D., University of Minnesota, Professor, English. (1948)
Verne B. Kniskern, Ph.D., University of Michigan, Professor, Zoology. (1950)
Cary I. Knoop, M.F.A., University of Illinois, Assistant Professor, Art. (1953)
Eric N. Koch, Ph.D., University of Illinois, Assistant Professor, Physics. (1972) (Substitute)
Raymond L. Koch, Ph.D., University of Minnesota, Associate Professor, History. (Sabbatical leave, fall semester). (1966)
Karl-Ludwig Konrad, M.A., University of Washington, Instructor, Foreign Languages. (1970)
Lloyd L. Koontz, M.A., University of Arkansas, Assistant Professor, Mathematics. (1963)
Fethi M. Kopuz, (Bachelor's), Faculty of Letters, Istanbul, Turkey, Associate Professor, Music. (1967)
Mary Krause, M.Ed., University of Oklahoma, Instructor in Elementary and Junior High School Education. (1974) (Substiture, fall)
Paul Krause, M.S., University of Wisconsin, Assistant Professor in Geography and Geology. (1974)
Eugene B. Krehbiel, Ph.D., Kansas State University, Professor, Zoology. (1963) (Sabbatical leave, fall semester)
James W. Krehbiel, Ph.D., Indiana University, Associate Professor, Music. (1965)
Claire E. Krukenberg, Ph.D., University of Illinois, Assistant Professor, Mathematics. (1968)
June M. Krutza, Ph.D., The Ohio State University, Professor, Art. (1952)
Carol C. Ku, M.L.S., University of Pittsburgh, Assistant Professor, Library. (1967)

L

Oren F. Lackey, M.S., University of Illinois, Assistant Professor, Botany. (1963)
Clayton E. Ladd, Ph.D., University of Iowa, Professor in Psychology.* (1974)
Jon M. Laible, Ph.D., University of Illinois, Associate Professor, Mathematics. (1964)
Freddie Lambert, M.S., Southern Illinois University, Assistant Professor in Psychology. (1973)
Bert A. Landes, M.A.T., Colorado State University, Assistant Professor, Botany and Zoology and Education. (1967)
Floyd A. Landsaw, Ed.D., Indiana University, Assistant Professor, Instructional Media. (1965)
Johnny L. Lane, M.M., Southern Illinois University, Instructor in 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 Foundations.* (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) (Sabbatical leave, fall semester)
Nancy E. Laurent, M.S. in Ed., Eastern Illinois University, Faculty Assistant, Life Sciences. (1973) (Part-time)
Richard W. Lawson, M.S.L.S., Western Reserve University, Assistant Professor, Library Science. (1964)
Walter S. Lazenby, Jr., Ph.D., Indiana University, Professor, English. (Sabbatical leave, fall semester). (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) (Sabbatical leave, 1974-75)
Michael B. Leyden, D.Ed., University of Florida, Associate Professor, Elementary and Junior High School Education. (1970)
Maurice C. Libbey, M.S., Columbia University, Assistant Professor, Library. (1967)
John W. Linn, M.A., San Diego State College, Assistant Professor, Art. (1967)
Inez B. Livingston, Ph.D., The Ohio State University, Professor, Psychology. (1968)
Jerome B. Long, Ph.D., Fordham University, Associate Professor, Philosophy. (1966)
John Lowe III, Ph.D., University of Illinois, Assistant Professor in Speech Pathology and Audiology. (1974) (Part-time)
Walter S. Lowell, Ed.D., Michigan State University, Professor, Physical Education. (1961)

M

Fred W. MacLaren, Ph.D., University of Oklahoma, Professor, Elementary and Junior High School Education. (1965)
Joanne Magalis, M.A., University of Illinois, Assistant Professor, Sociology-Anthropology. (1971)
John N. Maharg, D. Ed., University of Illinois, Professor, Music. (1958) (Sabbatical leave, spring semester)
Harold A. Malehorn, Ph.D., Northwestern University, Associate Professor, Elementary and Junior High School Education. (1970)
Maurice W. Manbeck, Ph.D., University of Minnesota, Assistant Professor, Psychology. (1957)
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)
Thomas O. Maruna, M.B.A., Ohio University, Instructor, Marketing. (1972) (Leave 1974-75)
Merrilie Mather, Ph.D., Boston University, Professor, English. (1951)
Janaye L. Matteson, M.S., Eastern Illinois University, Instructor in Speech Pathology and Audiology. (1975) (spring semester)
Gerhard C. Matzner, Ph.D., Cornell University, Professor, Educational Administration and Supervision (1955)

David J. Maurer, Ph.D., The Ohio State University, Professor, History. (1962)
Jaime A. Maya, Ph.D., University of Arizona, Associate Professor, Zoology. (1966)
William J. McCabe, M.A., The University of Iowa, Assistant Professor, Physical Education. (1962) (Sabbatical leave, fall semester)
Beryl F. McClerren, Ph.D., Southern Illinois University, Professor, Speech-Communication. (1964)
Sally L. McCluskey, Ph.D., Northern Illinois University, Assistant Professor, English. (1972)
Frances W. McColl, M.A., Columbia University, Assistant Professor, English. (1957)
Claude R. McCullough, B.S., Indiana State University, Faculty Assistant, Industrial Technology. (1973)
Jacqueline McCullough, M.A., Indiana State University, Instructor, 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)
Ralph Y. McGinnis, Ph.D., University of Denver, Professor, Speech-Communication. (1972)
William P. McGown, Ph.D., University of Southern Mississippi, Assistant Professor, Psychology. (1970)
Donald L. McKee, M.A.T., University of Illinois, Assistant Professor, Foreign Language and Education. (1961)
F. Raymond McKenna, Ed.D., Harvard University, Professor, Secondary Education and Foundations. (1953)
Donald E. McMullen, M.A., Northern Illinois University, Assistant Professor, Marketing. (1970) (Part-time)
Val G. McPeak, M.S. in Ed., Eastern Illinois University, Lecturer, Physical Education. (1970)
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. (1964)
Evelyn Melloh, Ph.D., Southern Illinois University, Professor, Home Economics. (1970)
Floyd E. Merritt, Ph.D., The Ohio State University, Assistant Professor, Speech-Communication. (1970)
John E. Mertes, D.B.A., Indiana University, Professor, Marketing and Coordinator of Graduate Business Studies. (1969) (Sabbatical leave, fall semester)
Douglas K. Meyer, Ph.D., Michigan State University, Assistant Professor, Geography and Geology. (1970)
Roy A. Meyerholtz, D.Ed., University of Northern Colorado, Associate Professor, Mathematics. (1961)
Martin M. Miess, Ph.D., Universitaet Innsbruck, Professor, Foreign Languages.* (1956) (Sabbatical leave, fall semester)
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)

Lynn E. Miner, Ph.D., University of Illinois, Professor, Speech Pathology and Audiology. (1963)**
William D. Miner, Ph.D., Indiana University, Professor, History. (1950)
Richard D. Minick, B.S., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
Al R. Moldroski, M.A., Michigan State University, Assistant Professor, Art. (1963)
Donald L. Moler, Ph.D., University of Kansas, Professor, Educational Psychology and Guidance. (1951)
Edward O. Moll, Ph.D., University of Utah, Associate Professor, Zoology. (1968)
John T. Moore, D.B.A., Indiana University, Professor, Marketing. (1969) (Sabbatical leave, spring semester)
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)
Donald B. Morlan, Ph.D., Purdue University, Associate Professor, Speech-Communication. (1969)
James D. Motley, M.B.A., Eastern Illinois University, Instructor, Accountancy. (1973)
John E. P. Mullally, M.A., Middlebury College, Assistant Professor, Foreign Languages. (1968)
Betty G. Muller, M.A., East Carolina College, Assistant Professor, Physical Education and Education. (Sabbatical leave, spring semester) (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) (Sabbatical leave, fall semester)
Louise Murray, Ph.D., Northwestern University, Professor, English. (1951)
Jack Murry, Ed.M., University of Illinois, Assistant Professor, Business Education and Administrative Office Management. (1965)
Jeanette Murry, M.S. in Ed., Eastern Illinois University, Assistant Professor, Business and Education. (1969)

N

Jagdish L. Nanda, Ph.D., Indiana University, Professor, Mathematics. (1964)
Sat P. Narang, M.S.L.S., University of Wisconsin, Assistant Professor, Library. (1969)
Joel E. Naumann, Ph.D., University of Utah, Assistant Professor, Music. (1973)
Shirley W. Neal, Ph.D., University of Illinois, Assistant Professor, English. (1968) (Sabbatical leave, spring semester)
James R. Necessary, B.S., Indiana University, Faculty Assistant in Management. (1974) (part-time)
Allen R. Neff, M.A., The Ohio State University, Assistant Professor, English. (1967)
Howard F. Nelms, M.Ed., University of Illinois, Assistant Professor, Industrial Arts Education. (1970)
James E. Nicely, M.A., Indiana University, Assistant Professor, Speech Pathology and Audiology. (1970) (Part-time)
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. in Ed., Eastern Illinois University, Instructor, Home Economics. (1972)

Janet L. Norberg, Ph.D., The University of Iowa, Professor, Speech-Communications. (1963)
Harold D. Nordin, M.A., Northern Illinois University, Assistant Professor, Economics. (1967)
John T. North, Ed.D., Indiana University, Associate Professor, Secondary Education and Foundations. (1970)

O

Marilyn S. Oglesby, M.S. in Ed., Eastern Illinois University, Instructor, Management. (1969)
Kevin J. O'Keefe, Ph.D., New York University, Assistant Professor, History. (1970)
Edward Olcott, M.B.A., Texas Christian University, Assistant Professor in Management. (1974)
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) (Sabbatical leave, fall semester)
Barbara L. Owens, Ed.S., Eastern Illinois University, Assistant Professor, Home Economics and Education. (1969)
John W. Oxley, M.B.A., Eastern Illinois University, Instructor, Management. (1973)
S. Jayne Ozier, M.S.Ed., Eastern Illinois University, Instructor, Home Economics. (1970)

P

Ronald Paap, A.M., University of Northern Colorado, Assistant Professor, Physical Education. (1963)
Raymond F. Padovan, M.S., Southern Illinois University, Assistant Professor, Physical Education. (1966)
James E. Palmer, Ph.D., University of Missouri, Associate Professor, Geography and Geology. (1969)
Anne Marie Pasquarelli, M.A., Purdue University, Instructor, English. (1972)
Sharon Pearson, Ph.D., University of Illinois, Associate Professor, English. (1972)
J. Robert Pence, Ed.D., University of Illinois, Professor, Music. (1951)
Stuart L. Penn, Ph.D., Yale University, Professor, Philosophy. (1960)
John C. Peterson, Ph.D., The Ohio State University, Associate Professor, Mathematics. (1969)
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. in 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)
Raymond A. Plath, Ph.D., University of Wisconsin, Professor, Economics. (1946)
Frances M. Pollard, Ph.D., Western Reserve University, Professor, Library Science.* (1963)
Fredrick Preston, Jr., Ph.D., University of Illinois, Assistant Professor, English and Education. (1972)
Dalias A. Price, Ph.D., University of Wisconsin, Professor, Geography and Geology. (1958)
John E. Price, M.M., University of Tulsa, Assistant Professor in Music. (1974)

Q

Theodore K. Quinn, Ph.D., The University of Iowa, Assistant Professor, English. (1972)
Keith H. Quirk, M.S.Ed., Northern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1972)
James R. Quivey, Ph.D., Northern Illinois University, Associate Professor, English. (1969)*

R

Anola E. Radtke, M.M., Indiana University, Assistant Professor, Music. (1964)
Mushfequr Rahman, Ph.D., McGill University, Professor, Mathematics. (1967)
Mary F. Ramsey, Ph.D., Southern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1973)
Jack C. Rang, Ph.D., Northwestern University, Associate Professor, Theatre Arts. (1969)
Mary R. Rang, M.A., Eastern Illinois University, Instructor, Theatre Arts. (1973) (Part-time)
Evelyn N. Ransom, M.A., New Mexico Highlands University, Assistant Professor, English. (1970)
Paladugu V. Rao, M.S.L.S., University of Illinois, Assistant Professor, Library. (1968)
Hugh C. Rawls, Ph.D., University of Alabama, Professor, Zoology. (1956)
Mary Jo Read, Ph.D., University of Wisconsin, Professor, Geography and Geology. (1965)
John J. Rearden, Ph.D., Oklahoma State University, Associate Professor, Psychology. (1968)
Phyllis L. Rearden, M.S.L.S., University of Illinois, Instructor, Library. (1970)
John D. Reed, M.A., University of Missouri, Instructor, English. (1972)
James J. Reynolds, D.Ed., Indiana University, Associate Professor, Instructional Media. (1969)
Paul J. Reynolds, Jr., M.B.A., Bowling Green State University, Instructor, Management. (1969)
Paula Reynolds, M.A., Baylor University, Instructor, English. (1973)
Donna M. Rice, M.S., University of Illinois, Assistant Professor in Theatre Arts. (1974)
Jack J. Richardson, Ph.D., Southern Illinois University, Professor, Health Education.* (1965)
Rachael G. Richardson, M.S. in Ed., Eastern Illinois University, Assistant Professor, English (1963)
Bernie Ricono, M.S., Indiana University, Lecturer, Physical Education. (1972)
Bill T. Ridgeway, Ph.D., University of Missouri, Professor, Zoology. (1966)
Leta Ridgeway, M.S.L.S., Eastern Illinois University, Instructor, 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)
Helen J. Riley, M.S. in Ed., Illinois State University, Assistant Professor, Physical Education. (1965)
Lawrence A. Ringenberg, Ph.D., The Ohio State University, Professor, Mathematics. (1947)
William G. Riordan, Ph.D., Western Reserve University, Professor, Recreation. (1964)
John L. Roberts, Ph.D., The University of Iowa, Professor, Management. (1965)

James H. Robertson, D.Ed., University of Illinois, Professor, Music and Education. (1956)
Kathryn W. Robertson, M.S. in Ed., Eastern Illinois University, Assistant Professor, English. (1965)
Donald L. Rogers, D.Ed., University of Nebraska, Associate Professor, Secondary Education and Foundations. (1963)
Richard E. Rogers, Ph.D., Indiana University, Associate Professor, English (1969)
George W. Rommel, Ph.D., Northwestern University, Professor, English. (1953)
Jerome J. Rooke, M.S., Northern Illinois University, Associate Professor, Accountancy. (1965)
William J. Rothamel, M.S., Duke University, Assistant Professor in Management. (1974) (Part-time)
Paul F. Ruddell, M.S., Purdue University, Instructor, Physics. (1967)
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Wanda E. Ruyle, Adv. C., University of Illinois, Assistant Professor, Elementary and Junior High School Education. (1969)

S

Robert E. Saltmarsh, Ed.D., Indiana University, Associate Professor, Educational Psychology and Guidance. (1969)
George P. Sanders, M.M., Yale University, Assistant Professor, Music. (1964)
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Karen J. Sanders, M.M., University of Wisconsin, Assistant Professor, Music. (1966)
Mauderie H. Saunders, Ph.D., University of Oklahoma, Professor, Psychology. (1970) (On leave)
John E. Schaefer, M.S., University of Wisconsin, Assistant Professor, Physical Education. (1969)
Lahron H. Schenke, Ed.D., Teachers College, Columbia University, Professor, Elementary and Junior High School Education. (1963)
Wolfgang T. Schlauch, Ph.D., University of Freiburg, Professor, History.* (1969) (Sabbatical leave, year)
Joan K. Schmidt, M.S., Northern Illinois University, Instructor, Physical Education and Education. (1970)
Gene W. Scholes, Ph.D., Southern Illinois University, Associate Professor, Instructional Media.* (1966)
Frederick R. Schram, Ph.D., University of Chicago, Associate Professor, Zoology. (1968)
Anthony E. Schwaller, M.S., Stout State University, Instructor, Industrial Technology. (1970) (On leave)
Thomas E. Scism, Ph.D., University of North Carolina, Associate Professor, Political Science. (1970)
Colonel W. Scott, M.S. in 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) (Sabbatical leave, spring semester)
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Phillip M. Settle, M.F.A., University of Illinois, Assistant Professor, Art and Education. (1957)

Carl N. Sexton, P.E.D., Indiana University, Associate Professor, Health Education. (1966)
Kathlene L. Shank, M.S. in Ed., Eastern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1970)
Carl E. Shaw, Ph.D., Purdue University, Professor in Psychology. (1974)
Maurice D. Shepherd, M.A.T., Indiana University, Assistant Professor, Chemistry and Physics and Education. (1967)
Paul L. Shriver, M.A., Bradley University, Instructor, Psychology. (1969)
Marian H. Shuff, Ed.D., University of Kansas, Professor, Secondary Education and Foundations. (1966)
Robert V. Shuff, Ph.D., University of Minnesota, Professor, Educational Administration and Supervision.* (1964) (Sabbatical leave, spring semester)
Carl E. Shull, Ph.D., The Ohio State University, Professor, Art. (1947)
Bryan Shuster, M.A., Northeast Missouri State College, Assistant Professor, Industrial Arts Education. (1968)
Richard J. Sidwell, Ph.D., University of Utah, Assistant Professor, Economics. (1970)
Henry Silverstein, M.L.S., M.A., New York University, Assistant Professor, English (1965)
Delbert R. Simon, D.M.A., The University of Iowa, Associate Professor, Music. (1969)
Allen W. Smith, Ph.D., Indiana University, Assistant Professor, Economics. (1970)
Calvin N. Smith, Ph.D., Purdue University, Associate Professor, Speech-Communication. (1965)
Carolyn G. Smith, M.N., Western Reserve University, Associate Professor, Health Education. (1952)
Catherine A. Smith, D.Mus., Florida State University, Professor, Music. (1949)
David D. Smith, M.A., Cal-State University, Assistant Professor in Speech-Communication. (1974)
Jerome V. Smith, Ph.D., Louisiana State University, Assistant Professor, Sociology-Anthropology. (1972)
Norman D. Smith, Ph.D., Indiana University, Assistant Professor, Chemistry. (1965)
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Richard L. Smith, Ph.D., University of Texas, Associate Professor, Botany. (1965)
Robert J. Smith, Ph.D., The University of Iowa, Professor, Chemistry. (1955)
Donald W. Smitley, Ed.D., University of Illinois, Associate Professor, Educational Administration and Supervision. (1970)
John K. Snodgrass, Ph.D., University of Oklahoma, Professor in 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, Industrial Arts Education.* (1956) (Sabbatical leave, spring semester)
Walter Sorge, Ed.D., Columbia University, Associate Professor, Art.* (1970)
Roland D. Spaniol, Ph.D., The University of Iowa, Professor, Management. (1960)
John M. Speer, Ph.D., The Ohio State University, Associate Professor, Botany. (1969)

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, Engligh. (1959)
Robert W. Sterling, M.S. in Ed., Eastern Illinois University, Assistant 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)
Sue B. Stoner, M.S. in Ed., Eastern Illinois University, Assistant Professor, Psychology. (1965)
Alice C. Stoughton, M.S., University of Oregon, Instructor, Physical Education. (1971)
Gayle G. Strader, M.S., University of Illinois, Assistant Professor, Home Economics. (1965)
Clifford E. Strandberg, Ed.D., Texas A & M University, Professor, Industrial Arts Education. (1965)
Craig M. Stroh, M.A., University of Oregon, Assistant Professor, Economics. (1970)
Frederick G. Stubbs, Ph.D., University of Illinois, Associate Professor, Management. (1972)
Frieda S. Stute, Ph.D., University of Illinois, Associate Professor, Sociology-Anthropology. (1966)
Barbara Sullivan, M.S., University of Illinois, Assistant Professor, Music. (1974)
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)
William Sunderman, J.D., University of Illinois, Assistant Professor, Management. (1972) (Part-time)
L. Donald Sundheim, M.A., University of Minnesota, Assistant Professor, Foreign Languages. (1968)
Kenneth R. Sutton, Ph.D., University of New Mexico, Assistant Professor, Secondary Education and Foundations. (1970)
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Donald S. Swope, M.S., Columbia University, Assistant Professor, Library. (1964)
Mary Ruth Swope, Ed.D., Columbia University, Professor, Home Economics. (1962)
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Henry A. Taitt, M.S., University of Delaware, Assistant Professor, Physics. (1965)
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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, Professor, History. (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., in Ed., Eastern Illinois University, Faculty Assistant, Chemistry. (1955)
Gaylord Tull, M.S., St. Francis College, Instructor in Elementary and Junior High School Education. (1974)[1]
George E. Tuttle, Ph.D., University of Illinois, Assistant Professor, Speech-Communication and Theatre Arts and Education. (1972)

V

Donald VanDusen, M.A., Eastern Illinois University, Instructor in Mathematics. (1974)
Charles R. Vaughan, M.S. in Ed., Eastern Illinois University, Assistant Professor, Recreation. (1965)
Stuart P. Vincent, M.S., University of Nebraska, Associate Professor, Elementary and Junior High School Education. (1967)
Peter M. Vivona, M.A., The Ohio State University, Assistant Professor, Music. (1967) (On leave)
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Elmer C. Voudrie, M.B.A., Eastern Illinois University, Instructor in Management. (1974) (Part-time)

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Leyla Waddell, M.A., Eastern Illinois University, Faculty Assistant, Library. (1967) (Part-time)
Robert C. Waddell, Ph.D., Iowa State University, Professor, Physics. (1948)
Thomas H. Wade, M.A., University of Connecticut, Instructor in Music. (1974)
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Willis O. Waltman, Ed.S., Eastern Illinois University, Assistant Professor, Instructional Media. (1969)
Paul L. Ward, Ph.D., The Ohio State University, Associate Professor, Educational Psychology and Guidance. (1967)
Barbara Warner, B.S., Colorado State University, Faculty Assistant, Life Sciences. (1973) (Part-time)
Ben P. Watkins, Ph.D., University of Minnesota, Associate Professor, Art. (1964)
Charles W. Watson, M.A., Western Kentucky State College, Assistant Professor, Industrial Technology. (1965)
Michael L. Weaver, M.B.A., Eastern Illinois University, Instructor in Marketing. (1974).
Thomas L. Weaver, B.S. in Ed., Eastern Illinois University, Faculty Assistant, Mathematics. (1973) (Part-time)
Mary L. Weber, M.S., University of California, Assistant Professor, Physical Education. (1970)
Robert W. Weidner, Ph.D., University of Rochester, Professor, Music. (1965)
Terry M. Weidner, Ph.D., The Ohio State University, Associate Professor, Botany. (1964)** (spring)
Nancy Weiler, M.S., Purdue University, Assistant Professor, Speech Pathology and Audiology. (1969) (Sabbatical leave, year)
William A. Weiler, Ph.D., Purdue University, Associate Professor, Botany. (1969)
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)
Ruth S. Wheeler, M.S. in Ed., Eastern Illinois University, Assistant Professor, Mathematics. (1961)
Richard A. White, M.S., Southern Illinois University, Assistant Professor, Elementary and Junior High School Education. (1969)
Robert F. White, Ph.D., University of Pennsylvania, Professor, English. (1960) (Sabbatical leave, year)
Wesley C. Whiteside, Ph.D., Florida State University, Professor, Botany. (1960)
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Roger L. Whitlow, M.S., Illinois State University, Assistant Professor, English. (1967) (Sabbatical leave, fall semester)
Clarence B. Wible, M. L., University of Pittsburgh, Assistant Professor, English. (1967)
Mary Lou Wigley, M.S.L.S., Eastern Illinois University, Instructor, Library. (1971)
Richard Wigley, Ph.D., Southern Illinois University, Associate Professor, Health Education. (1967) (On leave)
Rebecca S. Wild, Ph.D., University of Michigan, Associate Professor, English. (1966)
Carl E. Wilen, M.F.A., University of Illinois, Assistant Professor, Art. (1965)
Roger G. Wiley, M.A., Louisiana State University, Assistant Professor, Speech-Communication. (1964)
Larry J. Williams, M.A., University of Oregon, Assistant Professor, Mathematics. (1964)
Ned Williams, Ph.D., Columbia University, Professor, Management. (1969)
Gilbert E. Wilson, Ph.D., Southern Illinois University, Associate Professor, Health Education. (1962)
Robert C. Wiseman, Ed.D., Indiana University, Associate Professor, Instructional Media. (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 C. Wood, Ph.D., University of Pennsylvania, Professor, History. (1960)
M. Thomas Woodall, Ph.D., The University of Iowa, Professor, Physical Education. (1965) (Sabbatical leave, spring semester)

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Harriet E. Yingling, Ed.D., New York University, Professor, Physical Education. (1968) (Sabbatical leave, fall semester)
Marina Su-Chin Yu, M.A., Texas Woman's University, Assistant Professor, Physical Education. (1966)

Z

Robert Zabka, Ph.D., Northwestern University, Associate Professor, Elementary and Junior High School Education. (1964)
Jerry Zachary, Adv. C., University of Illinois, Assistant Professor, Educational Psychology and Guidance and Secondary Education. (1966)
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)
Gary L. Zwicky, D.M.A., University of Illinois, Associate Professor, Music. (1966)

EMERITUS FACULTY

Presidents

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Quincy V. Doudna, Ph.D.

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William H. Zeigel, Ph.D., Administrative Affairs

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Harold M. Cavins, Ed.D.
H. Logan Cobb, Ph.D.
Earl S. Dickerson, Ed.D.
Arthur U. Edwards, Ph.D.
Gladys W. Ekeberg, Ph.D.
Charles Elliott, Ph.D.
Melvin O. Foreman, Ph.D.
Ewell W. Fowler, Ed.D.
Kevin Guinagh, Ph.D.
Edith C. Haight, Ph.D.
Bryan Heise, Ph.D.
E. Chenault Kelly, D.Ed.
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Elizabeth K. Lawson, Ph.D.[1]
Glenn Q. Lefler, Ph.D.
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John W. Masley, Ed.D.
Glenn A. McConkey, Ph.D.
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.
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Roscoe F. Schaupp, Ph.D.
Ruth Schmalhausen, Ed.D.
Glenn H. Seymour, Ph.D.
Ruby Smith, Ph.D.
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George S. Westcott, Ph.D.
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Associate Professor

Elwyn L. Martin, Ph.D.

Assistant Professors

Mary L. Anderson, Ed.S.
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Leah Stevens Castle, S.M.
Lena B. Ellington, A.M.
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Marguerite E. Green, M.P.H.
Harriet Love Hershey, M.S.
Ruth Hostetler, A.M.
Jessie M. Hunter, M.A.
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Florence E. Reid, M.A.
Nannilee Saunders, M.A.
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Ethel Hanson Stover, A.M.
Robert R. Thrall, M.S.
Helen VanDeventer, M.S.Ed.

[1]Died November 2, 1974
[2]Died December 23, 1974

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Pauline Galbreath, M.S.L.S.
Mildred Hofacker, M.A.
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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

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William H. Groves, Ph.D.

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Stephen R. Autor, Adv. C., Instructor, Instructional Media. (1974)
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Robert Haskinson, M.S.Ed., Instructor, Instructional Media. (1974)
Charles J. Miller, M.S., Assistant Professor, Instructional Media. (1973)
Douglas Marsden, Research Associate, Zoology. (1966)
Carolyn Rohrer, M.Ed., Instructor, Instructional Media. (1973)
Calvin Stockman, M.S.Ed., Assistant Professor, Instructional Media. (1973)

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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
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CATALOG SUPPLEMENT

September 1, 1976

V. ACADEMIC REGULATIONS AND REQUIREMENTS.

Acceptance of Credit for Other Work

Credit for Courses in Other Colleges and Universities. (Substitute the following for the last paragraph.)

Although the university will accept all appropriate hours earned by students in an accredited community college as transfer credit, such credits beyond 64 semester hours will not count toward the university's requirement of 120 hours for a bachelor's degree. Regardless of hours accepted in transfer, the transfer student must earn a minimum of 56 semester hours in a senior institution (At least 42 of these must be earned at Eastern Illinois University. See Requirements for the Bachelor's Degree.) in order to qualify for a bachelor's degree.

Academic Load -- Undergraduate Student. (change)

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.

Summe r 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.

Pass-Fail Option. (change)

Eligible Students. Sophomores, juniors, seniors.

Procedure. At pre-enrollment, central registration, or through the last day to submit add requests for a semester or term, students may submit pass-fail option requests. No change either to or from pass-fail option will be permitted after the last day to submit add requests for a semester or term.

Limits. A maximum of 12 semester hours of undergraduate course work may be taken pass-fail with no more than one course in any subject title and no more than one course in any single semester or term.

Courses offered on pass-fail basis only as well as one physical education course per semester or term are not counted against the above limits.

Courses Excluded.

a. 1000-level courses used to satisfy general education requirements except those offered on pass-fail basis only and physical education service courses.

b. Professional education courses, including departmental methods courses, required in a teacher certification program.

c. Courses required in the student's declared major or program, and specified by course number in the catalog major description, may not be taken pass-fail by students in that particular major or program. Further, where the catalog major or program description allows a selection of courses from a set of courses identified by subject title or course number, none of the courses in the set may be taken pass-fail by students in that major or program.

Requirements for the Bachelor's Degree (change)

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 2020 or 4020 or Political Science (1103 and 2603), or 2011.

VII. UNDERGRADUATE DEGREES.

p. 72, Experimental Secondary Education Program (change)

This is a non-traditional program designed to prepare secondary teachers in Business Education, English, History, Political Science, Speech, Social Science, or Sociology. The program is competency-based and involves numerous experiences in public schools. Information concerning the program can be obtained from the Chairman, Department of Secondary Education and Foundations, School of Education, or from your major department. Psychology 2310 is a prerequisite for the experimental program.

p. 73, Teaching Practicum (Student Teaching 4301, 4302, 4304, 4308) (add) Students in secondary curricula must successfully complete at least four semester hours, and preferably eight semester hours, of student teaching in their major field.

p. 74, 3rd paragraph (substitute) A student enrolled in a high school curriculum is required to earn 12 semester hours in student teaching. 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.

p. 74, 1.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.

p. 77, Minors - Change 2nd paragraph to: 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 dean, the minor will be entered on the student's permanent record.

COURSE REQUIREMENTS FOR BACHELORS' DEGREES

The 120 semester hours required for a bachelor's degree must include both general education and specialization (academic major).

GENERAL EDUCATION

Each candidate for a bachelor's degree must successfully complete the following general education curriculum:

Courses	Hours
ENG 1001, 1002 (Beginning freshmen who have a standard ACT score of 12 or less in English must take English 1000; those whose ACT score in English is 26 or higher receive credit by exemption for English 1001 upon application through the Advisement Center.)	6
HED 1200	2
SPC 1310	3
Social Studies Distribution If majoring in a social studies subject, the requirement is met by 6 hours in one or more other social studies subjects	9
Humanities Distribution If majoring in a humanities subject, the requirement is met by 6 hours in one or more other humanities subjects. If majoring in any subject other than a foreign language, the entire requirement may be met by eight hours in a single foreign language.	9
Mathematics/Science Distribution If majoring in a mathematics/science subject, the requirement is met by 6 hours in one or more other mathematics/science subject	9

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

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

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

Courses which satisfy the general education distribution requirements are:

Humanities:

ART	1400, 1e50, 2300, 2340, 2e51, 2e52, 2e53
A&S	2100 (1 sh), 3103 (So only)
ENG	All courses numbered below 4000 except: 1001, 1002, 3003, 3400, 3405, 3401, 3e00
FAR	2001, 2002, 2003
FLG	All courses numbered below 4000 except: French 3300, 3400, 3750; German 3303, 3400, 3750; Latin 3400; Linguistics 3350; Russian 3303, 3400; Spanish 3400, 3750
HIS	1100, 1200
JOU	2100
MUS	0100, 0110, 0120, 0300, 0e00, 25e1, 25e2, 25e3, 25e4, 25e5, 25e0
PHI	1800, 1830, 1900, 2010, 2850, 2860, 2900, 3000, 3020, 3030, 3040, 3060, 3070, 3100, 3300, 3800, 3900.
PED	2230, 2240, 2270, 2e60
SPC	1400, 2170, 2300, 2320, 2340, 2520, 2540, 2830
THA	1133, 2240, 3751, 3752

Mathematics/Science:

A&S	2100 (1 sh), 3303 (Su only)
BOT	1010
CHM	1050, 1300 & 1315, 1310 & 1315, 1410 & 1415, 1510 & 1515
ESC	1410
GEL	1400
LFS	1000, 2010
MAT	1150, 1250, (1290 or 1300), 1310, (1320 or 1340), 2110 or 2340 or 2351), 2120, 2550, (2310 or 2320)
PHY	1050, 1054, 1150, 1160, 1350, 1360
ZOO	1010, 2150, 2999

Social Studies:

ANT	2730, 2742
A&S	3203 (Su only)
ECN	2801, 2802
GEG	1500
HIS	1000, 2010, 2020
HEC	2831
PLS	1003, 1103, 2203, 2603
PSY	2310, 2320
SOC	2710, 2720
TED	1413

Transfer Students.

Transfer students are not restricted to the above course choices in meeting general education requirements. A student who has completed an A. A. or A. S. degree in an Illinois public community college or from Lincoln College is considered as having met the university's general education requirements. For other transfer students, the following rules appiy:

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 5 sem. hrs. in English, 2 sem. hrs. in Health Education, and 2 sem. hrs. 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 social studies subject or subjects.
3) 9 sem. hrs. in a mathematics/science subject or subjects.

Transfer students who have only partially filled the above requirements must complete the requirement in approved EIU distribution courses.

c. Any transfer student who enters a teacher certification program must meet all requirements for teacher certification.

TEACHER CERTIFICATION PROGRAMS

In conjunction with those requirements listed under general education and under the appropriate major, each candidate for a secondary teaching certificate must successfully complete:

HED 1200* and one semester hour of health or physical education.
PSY 2310** and PLS 1103** or HIS 2010** or HIS 2020** and three semester hours of social studies**, approved for general education, other than psychology.
EDP 3320 or SED 3320
EDF 4450
Departmental Methods 3400***
STG 4304 and 4308

* also counts as part of general education requirements.
** also counts as part of general education distribution requirements in social studies.
*** exceptions to this course number are in art, business education, and music.

MAJORS' REQUIREMENTS

Students should note that certain courses listed in a major's requirements are also included in the list of courses which are allowed for general education requirements. For instance, in the Accounting major: ECN 2801, 2802; MAT 1290, 2110, 2120; PSY 2301; and SOC 2710 are courses required in the major and allowed for general education. Such courses may double-count and meet both requirements.

Requirements for specific majors are listed below.

Accounting (B. S. Bus.) (change)

Major:

Accountancy 2000, 2001, 3041, 3051, 3600, 4050, 4600, 4610, 4850	28 sem. hrs.
Business Education 3340	3
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 3010, 3460, 3470, 3800, 3810, 3950, 4360	21
Marketing 3470	3
Mathematics 1290, 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-Business elective	4
Total	93 sem. hrs.

Administrative Office Management (B. S. Bus.) (change)

Major:

Accountancy 2000, 2001, 3020	9 sem. hrs.
Business Education 3220, 3230, 3340, 4750	12
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 3010, 3460, 3810, 3830, 3950, 4360	18
Marketing 3470	3
Mathematics 1290, 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Non-Business electives	4
Choice of one of the following options	6
Total	86 sem. hrs.

Option I --- Business Education 2240 and 2250.
Option II --- Two courses in Data Processing.
Option III -- Two courses in Accountancy numbered 3000 or above.
Option IV -- Two of the following: Management 3450, 3550, 4380, 4450.

Art Education (B. A. for Teacher Certification) (change)

Major:

Art 1000, 1110, 2050, 2100, 2250, 2410, 2560, 2601, 2602, 2700, 3080, 3410, 3820	43 sem. hrs.
Electives in Art	15
Total	58 sem. hrs.

Art (B. A.)

Major: (Art)

Visual Communication Option (add)

Art 1000, 1110, 2050, 2560, 2601, 2602, 2900, 3901, 3902	31 sem. hrs.
Technology Education 3122, 3132, 4124	9
Select electives from Art and Speech Communication 2530, 3-10	
Choose 18 semester hours from art courses, management skills courses, energy policy courses, or any combination of those courses.	18
Total	66-67 sem. hrs.

Automated Information Systems (B. S. Bus.) - (change to Computer Management)

Botany (B.S.) (change)

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.)

Botany (B.S. for Teacher Certification) (change)

Major:

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.) (change)

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 3460	3
One of the options listed below	10-15
Total	47-55 sem. hrs.

Comprehensive Basic Business Option:

Advanced accountancy course or Data Processing 2310	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 3420, 3440	4
Management 2010	3
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

Office Occupations Emphasis:

Business Education 2250 or two of 1240, 1250, 2240, 2250	3-6 sem. hrs.
Management 2010	3
Business Education 3420 or 3440	2
Total	8-11 sem. hrs.

Marketing Emphasis:

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

*Not required for ESEP students.

Business Education (B.S.Ed.) (change)

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 3460	3
Total	39-42 sem. hrs.

*Not required for ESEP students.

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 3460, 3470	6
Business Elective	3
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
One of Business Education 3420, 3440	2
Electives in Business	2-8
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
One of Business Education 3430, 3440	2
Data Processing 2250	2
Business Electives	3-6
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 3800	6-18
Occupational Education 4800	3
Occupational Education 4810	3

Strongly recommended electives:

Occupational Education 4300	3
Occupational Education 4600	3

Career Occupations (B.S. for Teacher Certification)

Curriculum Concentrations:

Business and Office Occupations
Indus trial/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 3800	6-18
Occupational Education 4800	3
Occupational Education 4810	3

Strongly recommended electives:

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 Edu. 3320	5
Educational Foundation 4450	3
Occupational Education 3400	3
Student Teaching 4301, 4304	5

Chemistry (B.S.) (add Chemistry 3001 and 4001; does not change total sem. hrs. required)

Chemistry (with Management Option) (B.S.)

Major:

Accountancy 2000, 2001	6 sem. hrs.
Chemistry 1310, 1315, 1510, 1720 (or 1515 and 2340), 2830, 2835, 2840, 2845, 3910, 4760, 4780	27-28
Electives in chemistry	3
Data Processing 2250	3
Finance 3710	3
Economics 2801, 2802	6
Management 3010, 3460, 3810	9
Marketing 3470	3
Mathematics 2351, 2352	8
Physics 1350, 1360	8
Total	76-77 sem. hrs.

Community Press Media (B.A.) (change to Journalism)

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.

Computer Management (B.S. Bus.) (formerly Automated Information Systems)

Major:

Accountancy 2000, 2001, 3020	9 sem. hrs.
Business Education 3340	3
Data Processing 2250, 2300, 2310, 3290, 3310, 3330, 4610	20
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 3010, 3460, 3810, 3950, 4360	15
Marketing 3470	3
Mathematics 1290, 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.

Earth Science (B.S.) (add)

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	17
Life Science 1000	3
Mathematics 1300 or 1310	2-3
Physics 1054	3
Electives chosen from two of the following sciences: botany, chemistry, geology, physics, zoology	8
Total	66-68 sem. hrs.

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

Earth Science (B.S. for Teacher Certification) (add)

Major:

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 3000	3
One of the following: Mathematics 1290; 1300; 1310; or Physics 1350	2-5
Total	45-48

(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 3000	3
Physical Science 3400	3
Two of the following earth science courses: 1420, 2420, 2460, 3410	6
Total	27 sem. hrs.

Elementary Education (B.S. Ed.)

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

Art 1400 or 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 2220, 3190	5
Music 1421	3
Physical Education 3600	2
Physical Science 1000*	4
Psychology 2310	3
Natural Science elective	3
Social Studies electives**	6
Speech Communication 1310	3
Student Teaching 4308	8
U. S. history or U. S. government	3
Humanities	3
Subject concentration(s)	20-21
Electives as needed to complete 120 semester hours	

One of the following options:

Early Childhood Education: English 34051 Mathematics 3200; two of the following: Technology Education 2242, Music 3423, Art 2440. Students wishing to do student teaching in nursery-kindergarten must take Elementary Education 4260. Total, 9-13 sem. hrs.

Intermediate: Mathematics 3210; two of the following: Technology Education 2252, Music 3421, Art 2440. Total, 6-7 sem. hrs.

Comprehensive: Mathematics 3200 or 3210; two of the following: Technology Education 2242 or 2252, Music 3421 or 3423, Art 2440. Total, 6-7 sem. hrs.

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

**Certification requirements necessitate seven semester hours of social sciences other than Psychology. The electives should be chosen so that the students' total work in social studies includes at least two of the following disciplines: Anthropology, Economics, Geography, History, Political Science, Sociology.

Areas of Concentration consist of courses taken in addition to the General Education Requirements. Any deviation from courses indicated here must be approved by the Dean of the School of Education. Transfer students will have their completed course work evaluated by the Dean of the School of Education or his designated representative.

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

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

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

Art: Select courses compatible with professional goals and interests.

Biological Sciences: Botany 1010*, 1021; Zoology 1010*; electives.
*If not used to satisfy General Education Requirements.

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

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

Foreign Language (combined concentration): 32-33 semester hours in a single language.

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

Geography: Earth Science 1420 or 3000; Geography 1500 or 2020; elective from Geography, Geology-Earth Science.

History: 2010 or 2020; 3000 or 3005; electives.

Home Economics--Health Education: Health Education 3200; Home Economics 3820* or 4840*; electives.
*Prerequisites for these two courses are waived for Elementary Education majors.

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

Library Science (combined concentration): Library Science 4200, 4320, 4490, 4750, 4760, 4770. Total, 21 semester hours. (Students choosing this concentration do not need to take English 3405.)

Mathematics: 4810; electives other than Mathematics 1290.

Music: 2421, 2422; electives from 1136 or 1137, 1203, 1204, 2136, 2203, 2204, 2563, 2564, 2565, 2566.

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

Physical Education: 3610, 3620, 3630; 3 semester hours of electives from Health Education, Physical Education, or Recreation.

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

Psychology: Select courses compatible with professional goals and interests.

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

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

Speech Pathology and Audiology: 2140, 2210, 4800.

Flexible Program for Elementary Majors with a 3.50 Cumulative GPA

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 1400 or 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 1000, 1010	4
Psychology 2310	3
Science electives	3
Social Studies electives	6
Speech Communication 1310	3
Student Teaching 4308	8
U. S. history or U. S. government	3
Humanities	3
Electives	48

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

Elementary Education--Special Education (B.S. Ed.)

Required Courses: The following constitutes the list of requirements (including the all-university requirements) in the Elementary Education--Special Education curriculum. The student and the advisor must cooperate in planning the sequence.

Art 1400 or 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 2220, 3190; 3200 or 3210	7
Music 1421	3
Physical Education 3600	2
*Physical Science 1000, 1010	4
Psychology 2310	3
Science electives	3
Speech Communication 1310	3
Student Teaching 4301, 4302, 4304, 4308	15
Special Education 4770	3

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

U.S. history or 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	6
Special Education Requirements listed below	23-24
Electives as needed to complete 120 semester hours.	

(continued on next page)

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

Educable Mentally Handicapped: Special Education 2500, 3300, 4960, Educational Psychology 4990; electives from: Special Education 3350, 3400, 4660, 4870, 4880, 4980, 4990, 4750, 4760, 4970, Elementary Education 4775, Educational Psychology 4770, Psychology 3550, Speech Pathology & Audiology 4800. Total, 23 sem. hrs. minimum.

Learning Disabilities: Special Education 2500, 3350, 4980, 4990; electives from: Special Education 3300, 3400, 4660, 4750, 4760, 4970, 4960, 4870, 4880, Educational Psychology 4770, 4990, Psychology 3550, Speech Pathology & Audiology 4800, Elementary Education 4775. Total, 23 sem. hrs. minimum.

Socially and Emotionally Maladjusted: Special Education 2500, 4660, 4870, 4880; electives from Special Education 3300, 3350, 4750, 4760, 4970, 3400, 4960, 4980, 4990, Educational Psychology 4770, 4990, Elementary Education 4775, Psychology 3550, Speech Pathology & Audiology 4800. Total, 23 sem. hrs. minimum.

Energy Management Major (B.S. Bus.) (add)

Major:

Accountancy 2000, 2001; 3020 or 3701	9 or 8 sem. hrs.
Business Education 3340	3
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 3460, 3550, 3810, 3950, 4360, 4813, 4850	21
Marketing 3600	3
Mathematics 1290, 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.

Environmental Biology (B.S.) (slight change)

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 Geology 1400	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	76-77 sem. hrs.

Finance (B.S. Bus.) (change)

Major:

Accountancy 2000, 2001, 3020	9 sem. hrs.
Business Education 3340	3
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710, 3720, 4200, 4830	15
Management 3010, 3460, 3810, 3950, 4360	15
Marketing 3470	3
Mathematics 1290, 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.

Geography (B.S.) (slight change)

Major:

Earth Science 1410	4 sem. hrs.
Geography 1500	3
Courses from: Earth Science 1420 or 3000, 2420, 2460, 3010	3-4
Courses from: Geography 2020, 3520, 3530, 3540, 3720	6
Courses from: Geography 3600, 3620, 3650, 3700, 3750, 3870, 3950, 471-, 4730, 4760	3
Courses from: Geography 3580, 3800, 3810, 4770, 4800.	6-8
Geography electives	12
Total	37-40 sem. hrs.

Geology (B.S.) (add Geology 3470 to list of electives)

History (B.A.) (change)

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.

History Minor:

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.

Home Economics (B.S.) (change)

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	25
Management 3010, 3450	6
Mathematics 1290 (or higher)	5
Psychology 2310, 3620	6
Sociology 2710	3
Zoology 3000	3
Total	74 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	54-62
Total	73-81 sem. hrs.

Area I (Foods & Nutrition): Botany 2340; Bus. Ed. 1420; Chem. 1300 or 1310, 1315; Home Ec. 1120, 1150, 2120, 2250, 3120, 3140, 3150, 3925, 4140; Management 3010, 3830; Marketing 3470, 3510; 2 sem. hrs. in psych.; 15 sem. hrs. in Home Ec. electives. Total, 62 sem. hrs.

Area II (Clothing & Merchandising): DAP 2300; Home Ec. 2231, 2232, 2244, 2245, 2250, 3234, 3235, 3237, 3370, 3925, 4238, 4280; Management 3010, 3450, 3830; Marketing 3470, 3720, 4875. Total, 54 sem. hrs.

Area III (Consumer Affairs): Accountancy 2000, 2001, 2200; Finance 3700, 3720, 3900; Home Ec. 1120, 1150, 2244, 2250, 2270, 2800, 3370, 4840; Management 2010, 3460; Marketing 3470, 3720; Math. 1250 or higher; Psych. 4870; Socio. 2710. Total, 60 sem. hrs.

Family Services Option:

Edu. Guid. 4900	3
Home Economics 1120, 1150, 2270, 2400, 2800, 2850, 3300, 3307, 3370, 3800, 3820, 3853, 4300, 4840, 4545, 4846	42
Psychology 2310	3
Sociology 2710, 2720, 3600	9
Psychology or Sociology electives	6
Total	68 sem. hrs.

Industrial Arts (B.S. for Teacher Certification)

Major:

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.

Industrial Technology (B.S.) (change)

Major:

Chemistry 1300 or 1310, 1315, 1410, 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, 4340	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.

Journalism (B.A.) (formerly Community Press Media - change)

Major:

English 2003	3 sem.hrs.
Journalism 2100, 2101, 2102, 3001, 3100, 3101, 3102, 4100, 4101	21
Political Science 1103 or Economics 2801	3
Political Science 2603	3
Sociology 2710	3
Speech Communication 2520	3
Courses from: Econ. 3835, History 3180, Market. 3510, Philosophy 3300, Pol. Sci. 3733, Sociology 3681, Tech. Edu. 4113	15
Courses chosen in consultation with student's advisor	12
Total	63 sem.hrs.

Junior High School Education (B.S.Ed.)

Required Courses: (remains as is listed in catalog)

Subject Fields of Specialization: (change the following)

Art - Field II: Art 1650 or 2340 or 2651; 1000; 2050 or 3080; 1110 or 2100; 2250 or 2700; 2410 or 2440; 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.

Biological Sciences - 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 or 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 3320; Speech Communication 1310; One of English 2801, 2802, 2805, 2806. Total, 24 sem.hrs.

Foreign Languages - Field I: 1101, 1102, 2201, 2202, 3400; electives in that language. Total, 32 sem.hrs.

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

Geography - Field II: Geography 1500, 2020, 3600 or 3870, 3450; electives in geography. Total, 24 sem.hrs.

History - Field II: History 1100r, 2010, 2020, 3000, 3005; 2 or 3 sem. hrs. in U.S. history; electives in history. 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, 3234, 3235, 3300, 2850. 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, 4730, 4760, 4770, Instructional Media 4870, 4880. Total, 24 sem.hrs.

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

Mathematics - Field II: Mathematics 1250, 2220, 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, 2230 or 2240, 2440, 3400, 4320; 2 sem.hrs. from: 2104, 2370, 2380; 2 sem.hrs. from: 1900, 1920, 1930, 2220; electives from any 2000-level technique/theory course or 3000-level teaching/coaching course; physical education service courses (include an aquatics course or swimming proficiency). Total, 24 sem.hrs.

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

Physical Science - Field II: Chemistry 1300 or 1310; 1315; either (1410, 1415) or (1510, 1515); Physical Science 1000 or 1100 or Chemistry 2340; either Physics (1150, 1160) or (1350, 1360); electives from chemistry, geology, earth science, or physics. Total, 24 sem.hrs.

Social Studies - Field I: History 2010, 2020, 3000, 3005; 3 sem.hrs. in U.S. history (upper division recommended); 8 sem. hrs. in geography or 8 sem.hrs. in political science; 3 sem.hrs. in anthropology or sociology; 3 sem.hrs. in economics. Total, 32 sem.hrs.

Social Studies - Field II: History 2010, 2020, 3000, 3005; 3 sem.hrs. in U.S. history electives (upper division recommended); 8 sem.hrs. from one of the following: economics, geography, or political science. Total, 24 sem.hrs.

Special Education--Learning Disabilities - Field II: Special Education 2500, 3350, 4770, 4970, 4990; Student Teaching 4301, 4304; electives from: Speech Pathology & Audiology 4800, Special Education 3300, 3400, 4660, 4750, 4760, 4880, 4960. Total, 24 sem.hrs.

Special Education--Socially & Emotionally Maladjusted - Field II: Special Education 2500, 4660, 4770, 4880, 4970; Student Teaching 4301, 4304; electives from: Speech Pathology & Audiology 4800, Special Education 3300, 3350, 3400, 4750, 4760, 4960, 4990. Total, 24 sem.hrs.

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

Special Education--EMH - Field II: Special Education 2500, 3400, 3300, 4770 or 4970; Student Teaching 4301, 4304; electives from: Speech Pathology & Audiology 4800, Special Education 3350, 4660, 4750, 4760, 4880, 4960, 4990. Total, 24 sem.hrs.

Speech-Communication - Field II: Speech-Communication 1310, 2300, 2320; Theatre Arts 1133; one of the following: Speech Communication 2520, 2540, 3520, 3540; one of the following: Speech Communication 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.

Management (B.S.Bus.) (change)

Major:

Accountancy 2000, 2001, 3020	9 sem.hrs.
Business Education 3340	3
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 3010, 3460, 3810, 3830, 3950, 4310, 4360	21
Marketing 3470	3
Mathematics 1290, 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, 4310. Total, 12 sem.hrs.
Option B - Management 3450, 3470, 4370, 4380, 4450. Total, 15 sem.hrs.

Marketing (B.S.Bus.) (change)

Major:

Accountancy 2000, 2001, 3020	9 sem.hrs.
Business Education 3340	3
Data Processing 2250, 2300	5
Economics 2801, 2802, 3860	9
Finance 3700, 3710	6
Management 3010, 3460, 3810, 3950, 4360	15
Marketing 3470, 3510, 3720, 4860; 3490 or 4760	15
Mathematics 1290, 2110, 2120	11
Political Science 2603 or Sociology 2710	3
Electives in Marketing	6
Non-business elective	4
Total	86 sem.hrs.

Medical Technology (B.S.) (substitute Botany 3300 for 3250)

Music (B.Mus.) (change)

Major: Music -- History-Literature Option:

Music 1203, 1204, 1541, 1542, 1543, 1544, 2203, 2204, 2541, 2542, 2543, 2580, 3547 or 4750, 3571, 3572	29 sem.hrs.
Electives in MTH&L, including up to 6 sem.hrs. in Music 4600	15-18
Primary instrument or voice	8
Foreign Language	8
Music ensembles (at least two different ensembles)	6
Total	66-69 sem.hrs.

Performance Option:

substitute Music 2542 for 2560

2. Keyboard, a. Piano Primary: delete 4910

Theory-Composition Option:

substitute Music 2542 for 2560
delete Music 4872
change total to 74 sem.hrs.

Music (B.Mus. for Teacher Certification) (slight change)

substitute Music 2542 for 2560

2. Vocal Option, a. Vocal Principal, delete Music 3439. Change total to 22 sem.hrs.

2. Vocal Option, b. Keyboard Principal, change 3221 (pianists) or 4900 (organists); delete Music 3439. Change total to 21-22 sem.hrs.

2. Vocal Option, c. Composition Principal, delete Music 3439. Change total to 21-22 sem.hrs.

3. General Music Area, change to: Music(2155 and 3155) or (2360 and 3360; 4 sem.hrs. in applied music; 2 sem.hrs. in keyboard; 2 sem.hrs. in ensemble; 15 sem.hrs. selected from at least three of the following humanities areas: art, literature, theatre arts, and philosophy with no more than nine sem.hrs. allowed in any one of the areas. Total, 26 sem. hrs.

Physical Education (B.S.) (slight change)

Delete Life Science 1000; change Zoology 3000 to 2999; change total to 59 sem.hrs.

Physical Education (B.S. for Teacher Education) (K-12 Standard Special Certificate) and (6-12 Standard High School Certificate)

Delete Life Science 1000. Change Zoology 3000 to 2999. Change total to 62 sem.hrs.

Physics (B.S.) (slight change)

Add to first line: "Or Chemistry 1720 . . . 8-10 sem.hrs.)

Physics (B.S. for Teacher Certification) (slight change)

Add to first line: "Or Chemistry 1720 . . . 8-10 sem.hrs.)

Physics (with Management Option) (B.S.) (add)

Major:

Accountancy 2000, 2001	6 sem.hrs.
Chemistry 1310 or 1300, 1315, 1510, 1515 or 1720	8-10
Data Processing 2250	3
Economics 2801, 2802	6
Finance 3710	3
Management 3010, 3460, 3810	9
Marketing 3470	3
Mathematics 2351, 2352, 2353	11
Physics (1315, 1316)*	8
Physics 2370, 2390, 2400, 3410, 4000, 4010	14
Electives from Physics 3150, 3420, 4470, 4750, 4840, 4850, 4860	10
Total	80-82 sem.hrs.

Political Science (B.A.) (slight change)

Major:

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.

Political Science (B.A. for Teacher Certification) (slight change)

Major:

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
Choice of one of the options listed below	16
Total	54-56 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.

Psychology (B.A.) (change)

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, and 15 sem.hrs. of electives in psychology. Total, 23 sem.hrs.

II Paraprofessional: Psychology 3270, 3590, 3800, 4840, and 10 sem.hrs. of electives in psychology, and/or Sociology 3600, Health Ed. 3500, 4800, Home Ec. 4840. Total, 23 sem.hrs.

Recreation (B.S.) (change)

Major:

Art 1650	3 sem.hrs.
Music 1423	2
Political Science 2603	3
Psychology 2310	3
Recreation 1520, 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	8
Total	78 sem.hrs.

Sociology (B.A.) (slight change)

Major:

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

I - General Studies in Sociology: 18 sem.hrs. electives in sociology.

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

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

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

V - Anthropology: Anthropology 2742, 3672; 12 sem.hrs. of electives in anthropology which may include Sociology 4900.

Sociology (B.A. for Teacher Certification)

Major:

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	10-16
Total	52-58 sem.hrs.

I - 8 sem.hrs. in U.S. history and 5 sem.hrs. in world history. Total, 13 sem.hrs.

II - 8 sem.hrs. in U.S. history and 5 sem.hrs. in any history. Total, 13 sem.hrs.

III - Two of the following: anthropology 2 sem.hrs.; economics 8 sem.hrs.; geography 8 sem.hrs.; political science 8 sem.hrs. Total, 10-16 sem.hrs.

Speech Communication (B.A. for Teacher Certification)

Major:

Speech Communication 2300, 2320, 2340, 2520, 3400, 4900	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, 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.

Speech Pathology & Audiology (B.S.) (slight change)

Major:

Physics 1210	3 sem. hrs.
Psychology 2310, 3620, 4750, 4780	12
SPA 1100, 2110, 2140, 2210, 2800, 2830, 3250, 3300, 3410, 3500, 3600, 3651, 4700	34
Life Science 1000	3
Zoology 2999	3
Total	55 sem. hrs.

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

Speech Pathology and Audiology (B.S. toward Teacher Certification)

Major:

Physics 1210	3 sem. hrs.
Psychology 2310, 3620, 4750, 4780	12
Speech Pathology and Audiology 1100, 2110, 2140, 2210 2210, 2800, 2830, 3250, 3300, 3410, 3500, 3600, 3651, 4700	34
Life Science 1000	3
Zoology 2999	3
Total	55 sem. hrs.

Note: A student may denied admission to SPA 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.

Theatre Arts (B.A.) (slight change)

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	3
Total	40 sem. hrs.

Theatre Arts (B.A. for Teacher Certification) (slight change)

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	3
Speech Communication 2320, 2340	6
Speech Communication 3400 or English 3400	3
Total	49 sem. hrs.

Theatre Arts (B.A. for Teacher Certification) (add)

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; 2560, 3120 taken three times	27
Music 0300, 3440	4
Physical Education 2230, 2240	4
Total	62 sem. hrs.

Zoology (B.S.) (slight change)

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 to make total of 31 sem. hrs. in zoology	10-8
Total	64 sem. hrs.

Zoology (B.S. for Teacher Certification) (slight change)

Major:

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.

VIII. GRADUATE DEGREE PROGRAMS

Graduate Study in the Senior Year (change) During the final semester of residence in undergraduate work, or the penultimate semester of residence (if the final semester is to be spent in student teaching or internship), a senior may take graduate courses numbered below 5500 with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term. The senior who desires to take such graduate courses in the senior year must have a cumulative GPA of at least 3.00 and have the permission of the instructor and the Dean of the Graduate Studies and Research.

X. COURSE DESCRIPTIONS

Accountancy -- add:

2000. Principles of Accounting I. (3-0-3)
2001. Principles of Accounting II. (3-0-3)
3020. Managerial Accounting. (3-0-3)
3041. Financial Accounting Reporting Theory I. (3-0-3)
3051. Financial Accounting Reporting Theory II. (3-0-3)
3600. Information Systems and Cost Accounting I. (3-0-3)
3701. Governmental Accounting. (2-0-2)
4050. Advanced Accounting and Consolidations. (3-0-3)
4600. Information Systems and Cost Accounting II. (3-0-3)
4980. Current Issues in Accounting and Auditing. (2-0-2)

Accountancy -- delete:

2010, 2020, 300, 3040, 3050, 3700, 4000, 5900

Accountancy -- change:

4610 - credit (3-0-3); prerequisite, 2001.
4810 - prerequisite, 2001.
4850 - prerequisites, 3051, 3600.

Anthropology -- delete:

3251

Art -- add a paragraph under heading to read: One piece of art work by each graduate student shall be retained by the Department of Art to become part of its permanent collection.

Art -- delete

3090, 3190, 4750,

Art -- add

5611. Advanced Drawing. (3)

Art -- change:

2700 - delete prerequisites.
2800 - add to prerequisite, "or 1650."
3300 - renumber to 2300.
3340 - renumber to 2340; delete prerequisite; and add "Not open to art majors."
3601 - renumber to 2651.
3602 - renumber to 2652.
3603 - renumber to 2653.
3820 - change title to Textile Design; add to prerequisite, "or 1650."
5900 - add to description: "May be taken twice for credit."

Arts and Sciences -- add

2100. The Ascent of Man. (2-0-2)

Arts and Sciences -- delete

3102. Humanities
3102. Social Studies
3103. Mathematics-Science

Arts and Sciences -- change

3103. Social Studies - renumber to 3203.
3103. Mathematics-Science - renumber to 3203.

Botany -- delete

3361. Genetics. (see Life Science 3200)

Business Education -- add

1420. Business in Society. (3-0-3) (formerly Management 1420)
3300. Personal Financial Investment. (2-0-2)
3340. Introduction to Organizational Theory. (3-0-3)
4010. CPS Problems I. (2-0-2)
4020. CPS Problems II. (2-0-2)

Business Education -- delete

5200, 5760

Chemistry -- add

1250, 1260. Chemistry for Energy Management. (2-3-3- each)
3001. Undergraduate Seminar. (1-0-1)
4001. Undergraduate Seminar. (1-0-1)
4950. Energy Science. (3-3-4)

Chemistry -- delete

5130, 5430

Data Processing -- add

2250 (Mgt. 2320). Computer-Based Information Systems. (2-0-2)
2300 (Mgt. 2300). Computer-Based Problem Solving. (3-0-3)
2310 (Mgt. 2310). Computer-Based Business Programming. (3-0-3)
3290 (Mgt. 3320). Computer File Organization & Management Methods. (3-0-3)
3310 (Mgt. 3310). Design of Information Systems. (3-0-3)
3330 (Mgt. 3330). Real-Time Systems. (3-0-3)
4300 (Mgt. 4300). Data Processing Laboratory. (Arr.-Arr.-3)
4610 (Mgt. 4610). Management of Data Processing. (3-0-3)
4730. Internship in Data Processing. (Arr.-Arr.-3 or 6 or 9 or 12 or 15)
4740. Independent Study. (Arr.-Arr.-3)
4810. Computer-Based Simulation Modeling. (3-0-3)
4900 (Mgt. 4900). CDP Problems. (3-0-3)
5320 (Mgt. 5320). Management Information Systems. (3)
5950. Thesis. (3 to 6)
5990. Independent Study. (3 to 6)

Earth Science -- add

2460. Oceanography. (3-0-3)

Earth Science -- change

3010 - renumber to 3410

Economics -- change

5801 - renumber to 5401
5802 - renumber to 5402
5821 - renumber to 5421
5841 - renumber to 5441
5843 - renumber to 5443
5851 - renumber to 5451
5861 - renumber to 5461; change title to Sem. in International Trade.
5871 - renumber to 5471
5881 - renumber to 5481
5891 - renumber to 5491
5893 - renumber to 5493

Educational Administration -- delete

5880, 6200

Educational Foundation -- add

4750. Introduction to Adult Education. (3-0-3)

Educational Foundation -- delete

4742, 4743, 5550

Educational Foundation -- change

4741 - change credit to (Arr.-Arr.-1 to 6)

Educational Psychology -- delete

4742, 4743

Educational Psychology -- change

4741 - change credit to (Arr.-Arr.-1 to 6)

Elementary Education -- add

4775. Language and Language Arts in Early Childhood. (3-0-3)

Elementary Education -- delete

0990, 4690, 4742, 4743, 5570

Elementary Education -- change

4741 - change credit to (Arr.-Arr.1 to 6)

English -- add

1000. Fundamental English. (3-0-2)
4001. Technical Writing. (3-0-3)

English -- change

1001 - add prerequisite of English 1000.
3607 - change credit to (3-3-4)
3608 - change credit to (3-3-4)

Finance -- add

3700 (Mgt. 3700). Principles of Finance. (3-0-3)
3710 (Mgt. 3710). Business Financial Management. (3-0-3)
3720 (Mgt. 3720). Investments. (3-0-3)
3900 (Mgt. 3900). Risk and Insurance. (3-0-3)
4200 (Mgt. 4200). Security Analysis and Portfolio Management. (3-0-3)
4390 (Mgt. 4390). Real Estate. (3-0-3)
4730. Internship in Finance. (Arr.-Arr.-3 or 6 or 9 or 12 or 15)
4740. Independent Study. (Arr.-Arr.-3)
4870. International Finance. (3-0-3)
4830 (Mgt. 4830). Current Problems in Finance. (3-0-3)
5830 (Mgt. 5830). Seminar in Business Finance. (3)
5950. Thesis. (3 to 6)
5990. Independent Study. (3 to 6)

Fine Arts -- add

2001. Introduction to Art, Music, and Theatre. (3-0-3)
2002 (3002). The Fine Arts in Cultural Perspective. (3-0-3)
2003. Creative Expression in the Fine Arts. (3-0-3) (Not open to students majoring in any of the fine arts.)

Classics -- delete

4750, 4760

French -- add

2010. Intermediate Conversational French. (2-0-2) (Not open to French majors.)

German -- add

2010. Intermediate Conversational German. (2-0-2) (Not open to German majors.)

Latin -- delete

4401, 4402, 4403, 4404

Russian -- add

2010. Intermediate Conversational Russian. (2-0-2)

Russian -- delete

3308.

Spanish -- add

2010. Intermediate Conversational Spanish. (2-0-2) (Not open to Spanish majors.)

Spanish -- change

4402 - change title to Topics in Spanish Literature.

General Studies -- add

1000. Reading and Study Improvement. (2-2-2)

Geography -- add

3540. Geography of Latin America. (3-0-3)

Geography -- delete

3510, 4510, 4550, 4580, 5950, 5990

Geography -- change

3020 - renumber 2020
4520 - renumber 3520
4530 - renumber 3530

Geology -- add

3480. Geology of Energy Resources. (2-2-3)

Health Education -- add

3001. Cardio Pulmonary Resuscitation (CPR) Instructor's Course. (1-1-1)

Health Education -- change

3200 - change credit to (3-0-3)
3320 - change credit to (3-0-3)
4741 - change credit to (Arr.-Arr.-1 to 6)

Health Education -- delete

4742, 4743, 4744, 4745, 4746

History - add

1000. Makers of the Modern World. (1-0-1)
1100. World Civilization to 1500. (3-0-3)
3140. History of American Business. (3-0-3)
3250. The Spanish American Heritage of the United States. (3-0-3)
3720. Europe in the Nineteenth Century. (3-0-3)
3740. History of World War II. (3-0-3)
5010. Seminar in Historical Administration. (3)
5020. Seminar in Interpretation. (3)

History -- delete

3010, 4040, 4260, 4440, 4450, 4640, 4650, 5320, 5720

History -- change

1510 - renumber & chg. title to: 3000. Europe from the Renaissance to Waterloo.
1520 - renumber & chg. title to: 3005. Europe since Napoleon.
3030 - change title to Intellectual History of the United States.
3040 - change title to Studies in the Social History of the United States.
3070 - change title to History of the American Frontier East of the Mississippi.
3080 - change title to History of the Trans-Mississippi Frontier.
3260 - change title to Latin-American History
3500 - change title to Research Techniques and Sources.
4010 - change title to Colonial America from Discovery through Revolution.
4020 - change title to The Foundation of the American Constitutional and Political System.
4090 - change title to Contemporary America.
4120 - change title to The Rise and Growth of American Cities.

Add the following under History Graduate Courses: Note: Courses numbered 5160 through 5900 may be repeated for credit underdifferent instructors and with the approval of the department.

Home Economics -- add

2400. Career Education in Home Economics. (1-0-1)
3800, Family Life and Sex Education. (3-0-3)
5238. Seminar in Home Economics. (3)

Home Economics -- delete

2251, 4237, 5300, 5410.

Home Economics -- change

3831 - renumber to 2831
4300 - remove prerequisite.
4851 - change credit to (2-2-3)

Industrial Arts - change to Industrial Technology

1043
1163 and change credit to (2-2-2) and renumber to 1162.

Industrial Arts - change to Technology Education

1293
2023 and remove prerequisite.
2223 and remove prerequisite.
2242
2252
3013
3023
3033 and remove prerequisite.
3063 and renumber to 3064 and change credit to (1-4-4) and remove prerequisite.

3063 and renumber to 3064 and change credit to (1-4-4) and remove prerequisite.
3082 - renumber to 3083 and change credit to (0-6-3)
3223
3313
3322
3400
4052
4093 - renumber to 4094 and change credit to (2-4-4)
4113
4223
4470
4480
4932
4953
5050
5060
5070
5080
5090
5652 - renumber to 5653 and change credit to (3)
5722 - renumber to 5723, change title to Issues & Trends in Tech. Edu. and change credit to (3)
5803
5950
5990

Industrial Arts -- delete

1013, 1063, 1113, 1213, 1323, 1412, 2052, 2123, 2163, 2173, 2353, 3072, 3102, 3123, 3133, 3233, 4123, 4313, 4763, 4902, 5503, 5900.

Industrial Technology -- add

1043 (I.A. 1043). Engineering Graphics. (1-4-3)
1162 (I.A. 1063). AC and DC Circuits. (2-2-2)
3393. Alternative Energy Systems. (3-0-3)

Industrial Technology -- delete

4163, 4172

Instructional Media -- delete

5900, 6120

Junior High School Education --delete

4742, 4743, 4770

Junior High School Education -- change

4741 - change credit to (Arr. -Arr. 1 to 6)
4280 - change prerequisite to: Six sem. hrs. in education & psychology.

Library Science -- change

3200 - renumber to 4200.
3300 - renumber to 4300.
3320 - renumber to 4320

Life Science -- add

3200 (Botany 3361, Zoology 3200). Genetics. (2-2-3)
4903. Study in Biotic Communities. (2-Arr. -3)

Life Science -- change

3010 - renumber to 2010

Management -- add

4310. Organizational Behavior. (3-0-3)
4320. Production Systems and Control. (3-0-3)
4813. Energy and Environmental Law. (3-0-30
4850. Energy Finance and Incentives. (3-0-3)
4920. International Business Policy and Operation. (3-0-3)

Management -- change

1420 - change to Business Education
2300 - change to Data Processing
2310 - change to Data Processing
3310 - change to Data Processing
3320 - change to Data Processing
3330 - change to Data Processing
3550 - change prerequisites to: Accountancy 2001 and Economics 2802.
3700 - change to Finance
3710 - change to Finance
3720 - change to Finance
3810 - delete prerequisites.
3900 - change to Finance
4200 - change to Finance
4300 - change to Data Processing
4340 - renumber to 3950 and remove Mgt. 3010 as a prerequisite.
4360 - remove Mgt. 3010 as a prerequisite.
4390 - change to Finance and change prerequisite to: Finance 3700 & Mgt. 3470.
4610 - change to Data Processing
4730 - change credit to (Arr. -Arr. -3 or 6 or 9 or 12 or 15)
4830 - change to Finance and delete prerequisite.
4840 - change prerequisites to: Accountancy 2001 and Economics 2802.
4900 - change to Data Processing
5320 - change to Data Processing
5640 - change prerequisites to: Finance 3700 and 3710.
5830 - change to Finance

Management -- delete

4800
5160

Marketing -- add

3410. Current Trends in Marketing of Energy Technology. (3-0-3)
3510. Marketing Communications. (3-0-3)
4470. The Management of the Sales Force. (3-0-3)
4875. Retail Management. (3-0-3)

Marketing -- change

3470 - change title to: Principles of Marketing.
3720 - change title to: Consumer Behavior.
4730 - change credit to: (Arr. -Arr. -3 or 6 or 9 or 12 or 15)
4760 - change prerequisites to: Marketing 3470, Management 3010, 3810.
4780 - change prerequisites to: Marketing 3510 and 3720.
5350 - renumber to 4876.
5610 - renumber to 5335.

Marketing -- delete

3480, 3500, 3800, 4870, 5130, 5900

Mathematics -- add

1150. Mathematics for Liberal Arts Students. (3-0-3)
4750. Linear Programming. (3-0-3)
4810. Advanced Arithmetic for Secondary School Math. Teachers. (1-2-2)
5610. Abstract Algebra for Secondary School Math. Teachers. (3)
5620. Modern Geometries for Secondary School Math. Teachers. (3)
5630. Elementary Functions for Secondary School Mathematics Teachers. (3)
5640. Basic Analysis for Secondary School Mathematics Teachers. (3)

Mathematics -- change

2320 - change to (0-2-1)
2670 - change to (2-2-3)
4080 - add sentence to description: "Permission may be denied if the student does not have an overall GPA of at least 2.50 and major GPA of at least 2.75.
4780 - renumber to 5210.
5335 - change title to: Topics in Mathematics.
5700 - change title to: Topics in Teaching Mathematics. (2 or 4)

Mathematics -- delete

4850, 5040, 5225, 5302, 5410

Catalog, p. 197, Credit Organizations in Music, add paragraph:

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

Catalog, p. 198, Recitals, add sentence: Organ principals will present a senior recital and either a junior recital or equivalent performances.

Music -- add

2542. Music Theory. (3-0-3)
4870. Style Period Proseminar. (3-0-3) (May be repeated five times for undergraduate credit or twice for graduate credit.)

Music -- change

1421 - title and credit to: Basic Music for Classroom Teachers. (2-1-3)
2203 - change description to show that it is a course for music majors and minors.
2204 - change description to indicate that it is a course for music majors and minors.
2205 - change title to Keyboard Skills I. (0-2-1)
2206 - change title to Keyboard Skills II. (0-2-1)
2421 - change title and credit to: Fundamentals of Music II. (1-1-2)
3561 - renumber to 2563.
3562 - renumber to 2564.
3563 - renumber to 2565.
3564 - renumber to 2566.

Music -- change (concluded)

4770 - change title to Song Literature. (May be repeated once.)
4850 - change title to Jazz Band Arranging.
4920 - change title to Keyboard Literature. (May be taken twice for credit.)

Music -- delete

2560, 4780, 4820, 4830, 4872, 4910, 4960, 5200, 5360, 5810, 5840, 5850

Occupational Education -- add

3200. Occupational Experience. (1-30)
3300. Occupational Subjects. (1-20)
3400. Methods and Processes in Occupational Education. (3-0-3)
3800. Occupational Internship. (6-18)
4300. Special Study in Occupational Education. (3)
4600. Cooperative Occupational Education Programs. (3)
4800. Strategies and Processes in Occupational Education. (3)
4810. Principles of Career Development. (3)

Philosophy - change

4100 - renumber to 3900.

Philosophy -- delete

3150

Physical Education -- add

1490. Sailing. (0-2-1)
1830. Racquetball. (0-2-1)
3220. Techniques & Theory of Folk, Square, & Ballroom Dance II. (0-4-2)

Physical Education -- change

3270 - renumber to 2270
3330 - change credit to (2-2-3)
3350 - change credit to (2-2-3)
3960 - renumber to 2960

Physical Education -- delete

1450, 1470, 2670, 2900, 2920, 3580, 5621, 5622

Physical Science -- add

1100. Physical Science. (2-2-4)

Physical Science -- delete

1000, 1010

Physics -- add

1250. Physics for Energy Management I. (2-2-3)
1260. Physics for Energy Management II. (2-2-3)
4950. Energy Science. (3-3-4)

Physics -- change

3000 - Renumber to 1054

Political Science -- add

2052. Analysis of Political Data. (2-0-2)
3373. Politics of Oil in the Persian Gulf States. (3-0-3)
3523. Administration of the Criminal Code. (3-0-3)
3533. Civil Proceedings. (3-0-3)
4894. Government Budgeting and Taxation. (3-2-4)
5173. Seminar in Congressional Politics. (3)

Political Science -- change

1104 - renumber and change credit to: 1103 (3-0-3)
2003 - change title to: Information Sources in Political Science
3303 - change title to: Politics and Policy Issues in Western Europe.
3363 - change title to: Government and Politics of China and Asia.
3990 - change title to: Summer Studies in Ireland and Britain.

Political Science -- delete

3313, 3503, 4813, 4952, 5593

Psychology -- add

3690. Controversial Topics in Psychology. (3-0-3)
4890. Psychological Evaluation of Pre-School Children. (3-0-3)
5540. Psychological Processes in the Aged. (3)

Psychology -- change

2310 - change title to: Introduction to Psychology I.
2340 - renumber and change title to: 2320, Introduction to Psychology II.
3310 - change credit to (3-2-4)
3990 - change title to: Summer Studies in Ireland and Britain.
3900 - change credit to: (Arr.-Arr.- 1 to 6)
5010 - change prerequisites to: Psychology 2610, 3601 or 4780 or equivalents.
5020 - change prerequisites to: Psychology 3590 and 4780 or equivalents.
5030 - change prerequisite to: Concentrating in school psychology.
5050 - delete prerequisites.

Psychology -- delete

3910, 3920

Recreation -- add

4900. Maintenance and Operation of Parks. (3-0-3)
4950. Leisure Services for the Aged. (2-0-2)

Recreation -- change

4741 - change credit to (Arr.-Arr.-1 to 6)

Recreation -- delete

4742, 4743, 4744, 4745, 4746

Secondary Education -- add

4330. Secondary Education Methods. (3-0-3)
4751. Strategies of Adult Instruction. (3-0-3)
4850. Seminar and Field Experiences in Adult Education. (2-6-4)

Secondary Education -- change

4741 - change credit to: (Arr.-Arr.-1 to 6) and add prerequisite: Permission of the chairman of the department. The course is Pass-Fail only.

Secondary Education -- delete

4742, 4743, 6150

Sociology -- add

3780. Policing Society: A Sociological Analysis. (3-0-3)
4790. The Correctional Process: A Sociological Analysis. (3-0-3

Sociology -- change

3990 - change title to Summer Studies in Ireland and Britian.

Sociology -- delete

5400. Problems of the American Family. (3)

Special Education -- add

4750. Educational Assessment of the Pre-School Child. (3-0-3)
4760. Educating the Pre-School Handicapped Child. (3-0-3)

Speech Communication -- add

5450. The Nature and Problems of Mass Communication. (3)

Speech Communication -- change

2340 - delete prerequisite.
3170 - renumber to 2170.
3540 - change credit to (2-3-3)
3830 - renumber to 2830.
3990 - change title to: Summer Studies in Ireland and Britain.

Speech Communication -- delete

5820.

Speech Pathology and Audiology -- change

4700 - renumber to 4750 and change prerequisite to: SPA 2800, 2830; permission of the chairman of the department. Permission may be denied if the student has not obtained a 2.5 GPA and a 2.75 in SPA.

5250 - renumber to 4770.
5370 - renumber to 4780.
5410 - renumber to 4790.
5500 - renumber to 5490.
5600 - renumber to 4760.
5651 - renumber to 3651 and remove 5600 from prerequisites.
5652 - renumber to 5430 and change prerequisites to: SPA 3600, 3651, 4760.
5653 - renumber to 5440.
5700 - renumber to 5470.
5900 - renumber to 4755.
5920 - renumber to 5480 and change prerequisite to: SPA 4755.

Theatre Arts -- add

2000. Rehearsal, Performance and Crew. (Arr.-Arr.-1) May be repeated for a maximum of 3 sem. hrs.
3001, 4001. 5 O'Clock Theatre. (0-Arr.-1 for each course)
3344. Advanced Acting. (3-3-3)
3360. Stage Lighting. (3-3-3)
3500. Independent Study. (Arr.-Arr. 1 to 3)

Theatre Arts -- delete

3920, 3990.

Technology Education (formerly Industrial Arts*)

*1293. Industrial Crafts. (1-4-3)
1413. Technological Systems. (3-0-3)
*2023. Fabrication Drafting Analysis. (2-2-3)
2064. Materials and Processes. (3-2-4)
2114. Communications Technology. (2-4-4)
2183. Semi-conductor and Vacuum Tube Principles. (2-2-3)
*2223. Basic Fabrication of Woods. (1-4-3)
*2242. Primary Grade Industrial Arts. (1-2-2)
*2252. Intermediate Grade Industrial Arts. (1-2-2)
2292. Recreational Crafts. (0-4-2)
2324. Energy Technology. (2-4-4)
*3013. Architectural Planning and Analysis. (2-2-3)
*3023. Architectural Drafting and Design. (1-4-3)
*3033. Production Drafting and Design. (2-2-3)
*3064. Metal Machining Processes. (1-4-4)
3073. Production Systems. (0-6-3)
*3083. Advanced Metal Processes. (0-6-3)
3114. Copy Preparation. (2-4-4)
3122. Monotonal and Color Photography. (2-4-2)
3132. Monotonal and Color Photoconversion. (2-4-2)
3183. Digital Electronics. (1-4-3)
*3223. Wood Turning and Finishing. (1-4-3)
*3313. Electrical and Chemical Power. (3-0-3)
*3322. Power Transmission. (2-0-2)
3354. Engine Systems. (2-4-4)
*3400. Methods of Teaching Industrial Arts. (3-0-3)
*4252. Graphical Industrial Illustration. (0-4-2)
*4264. Welding Technology. (2-4-4)
*4113. Graphic Communications for Journalists. (2-2-3)
4124. Offset Lithography. (2-4-4)
*4223. Mass Fabrication in Woods. (0-6-3)
4274. Industrial Electronics. (2-4-4)
*4471. Independent Study. (Arr. -Arr. -1 to 5)
*4481. Independent Study. (Arr. -Arr. -1 to 5)
4502. Organization of Subject Matter. (Arr. -Arr. -2)
*4503. Student Achievement and Program Evaluation. (3-0-3)
4573. Readings in Technology. (3-0-3)
5131. Occupational Cooperative Education. (3)
5141. Administration and Supervision of Occupational Education. (2)
5171. Seminar in Occupational Education. (3)
5181. Seminar in Occupational Education. (1)
5191. Seminar in Occupational Education. (1-4)
5253. History and Philosophy of Technology Education. (3)
5273. Issues and Trends in Technology Education. (3)
5313. Facility Planning in Technology Education. (3)
5981. Thesis. (3 to 6)
5991. Independent Study. (1 to 6)

Zoology -- change

3000 - renumber to 2999; delete prerequisite. Credit is not given for both Zoology 2999 and 3100.

3100 - credit is not given for both Zoology 3100 and 2999.
3150 - renumber to 2150; delete prerequisite.
3300 - change meeting times to: (2-2-3)
4764 - change prerequisite to: Zoology 1010.
4777 - change meeting times to: (2-2-3)

Zoology -- delete

3200