

Donnelly

NORTHERN ILLINOIS UNIVERSITY
ARCHIVES

CATALOG

**Northern Illinois
State Teachers College**

**Graduate
School**

**DeKalb
1952-1953**

This catalog describes course offerings for the academic year 1952-1953. For a listing of the courses offered in the summer of 1952, see the Summer School Bulletin.

STATE OF ILLINOIS
ADLAI E. STEVENSON, Governor

CATALOG
OF THE
GRADUATE SCHOOL
OF
NORTHERN ILLINOIS
STATE TEACHERS COLLEGE



DeKalb, Illinois
1952-1953

(Printed by Authority of the State of Illinois)



STATE OF ILLINOIS
ADLAI E. STEVENSON, Governor

THE TEACHERS COLLEGE BOARD

Appointed Members

1951-1957

MR. W. W. WIRTZ, Chairman.....DeKalb
MR. JOSEPH F. BOHRER.....Bloomington
DR. WILLIAM C. REAVIS.....Chicago

1951-1955

DR. NOBLE J. PUFFER.....Barrington
DR. LESTER O. SCHRIVER.....Peoria
MR. LEWIS M. WALKER.....Gilman

1951-1953

MR. JACK AUSTIN.....Charleston
MRS. WILLIAM R. HARRIS.....Macomb
MR. ROYAL A. STIPES.....Champaign

Ex Officio Members

DR. VERNON L. NICKELL, Superintendent of Public Instruction.....
.....Springfield
MR. JOSEPH POIS, Director of Department of Finance.....Springfield
DR. RICHARD G. BROWNE, Executive Officer and Educational
Co-ordinatorSpringfield
MR. CHARLES G. LANPHIER, Financial Co-ordinator.....Springfield

GRADUATE SCHOOL CALENDAR—1952-1953

SUMMER SESSION, 1952

Monday, May 8—Saturday, May 24.....	Preregistration
Monday, June 9.....	Registration 8:00 A.M.
Tuesday, June 10.....	Class work begins 8:00 A.M.
Tuesday, June 10.....	Last day for filing application for admission to candidacy for August degree candidates
Tuesday, June 10.....	Last day for filing application to take comprehensive examination for August degree candidates
Monday, June 30.....	First day of comprehensive examinations for August degree candidates
Tuesday, July 1.....	Last day for filing qualifying paper for August degree candidates
Friday, July 4.....	Holiday
Friday, July 18.....	Last day of comprehensive examinations for August degree candidates
Thursday, July 31.....	Commencement, 3:00 P.M.
Friday, August 1.....	Session closes at end of school day

AUTUMN QUARTER, 1952

Saturday, September 13	Registration 8:00 A.M.
Saturday, September 13	Class work begins 9:00 A.M.
Monday, September 15.....	Registration 8:00 A.M.—8:00 P.M.
Friday and Saturday, October 17-18.....	Homecoming
Friday, October 24.....	Meeting of Rock River Division of I.E.A.
Wednesday, November 26.....	Thanksgiving recess begins 12:00 Noon
Monday, December 1.....	Class work resumes 8:00 A.M.
Tuesday, Wednesday, Thursday, December 2, 3, 4.....	Examinations
Saturday, December 6	Quarter closes at end of school day

WINTER QUARTER, 1952-1953

Monday, December 8.....	Registration 8:00 A.M.—8:00 P.M.
Monday, December 8.....	Class work begins 5:00 P.M.
Friday, December 19.....	Christmas recess begins 12:00 Noon
Monday, January 5.....	Class work resumes 8:00 A.M.
Monday, February 23	Holiday
Tuesday, Wednesday, Thursday, March 10, 11, 12.....	Examinations
Saturday, March 14.....	Quarter closes at end of school day

SPRING QUARTER, 1953

Monday, March 16.....Registration 8:00 A.M.—8:00 P.M.
Monday, March 16.....Class work begins 5:00 P.M.
Wednesday, April 1.....Last day for filing application for admission
to candidacy for May degree candidates
Wednesday, April 1.....Last day for filing application to take
comprehensive examinations for May degree candidates
Wednesday, April 1.....Easter recess begins—close of school day
Tuesday, April 7.....Class work resumes 8:00 A.M.
Thursday, April 30.....First day of comprehensive examinations
for May degree candidates
Thursday, April 30.....Last day for filing qualifying paper
for May degree candidates
Saturday, May 16.....Last day of comprehensive examinations
for May degree candidates
Sunday, May 31.....Commencement 5:00 P.M.
Monday, Tuesday, Wednesday, June 1, 2, 3.....Examinations
Thursday, June 4.....Quarter closes at end of school day

ADMINISTRATIVE STAFF

Leslie A. Holmes, Ph.D.President of the College
Romeo M. Zulauf, A.M.Dean of the Faculty
J. R. Hains, Ph.D.Director of the Graduate School
Edith Leifheit, B.E.Registrar
Marilyn Maurer.Secretary to the Director of the Graduate School

ADMINISTRATIVE COUNCIL

Leslie A. Holmes, Ph.D., Chairman.President of the College
Romeo M. Zulauf, A.M., Vice Chairman.Dean of the Faculty
Florence Adolph, A.M.Associate Professor of Home Economics
Elected from the Faculty
Harold E. Aikins, Ph.D.Associate Professor of Social Sciences
Elected from the Humanities Division
Ernest E. Hanson, A.M.Dean of Men
Appointed by the President
Eugene W. Hellmich, Ph.D.Professor of Mathematics
Elected from the Arts and Sciences Division
Esther Williams, Ed.D.Professor of Education
Elected from the Education Division
Margaret Wood, Ph.D.Associate Professor of Speech
Appointed by the President

GRADUATE COUNCIL

J. R. Hains, Ph.D., Chairman.Director of the Graduate School
Leslie A. Holmes, Ph.D.President of the College
Romeo M. Zulauf, A.M.Dean of the Faculty
J. Hal Connor, A.M.Department of English
Otto J. Gabel, Ph.D.Department of Education
Earl W. Hayter, Ph.D.Department of Social Sciences
Eugene W. Hellmich, Ph.D.Department of Mathematics
W. V. O'Connell, Ed.D.Department of Speech
Frederick W. Rolf, Ph.D.Department of Physical Sciences
George L. Terwilliger, Ed.D.Department of Biological Sciences

Departmental representatives are elected by their departments.

GRADUATE FACULTY

Leslie A. Holmes, Ph.D.President
Romeo M. Zulauf, A.M.Dean of Faculty and
Director of Summer Session
J. R. Hains, Ph.D.Director of Graduate School
Harold E. Aikins, Ph.D.Associate Professor of Social Sciences
S. Orville Baker, Ph.D.Associate Professor of English
Martin Bartels, Ph.D.Director of Placement
John Bower, Ph.D.Assistant Professor of Chemistry
Robert A. Bullington, Ph.D.Associate Professor of Biological Sciences
Cleo P. Casady, Ph.D.Associate Professor of Business Education

George P. Clark, Ph.D.....Assistant Professor of English
 Joseph Clettenberg, Ph.D.....Director of Extension
 J. Hal Connor, A.M.....Professor and Head of Department of English
 Paul Crawford, Ph.D.....Professor of Speech
 Irene Feltman, A.M.....Assistant Professor of Education
 Harvey Feyerherm, Ph.D.Assistant Professor of Biological Sciences
 O. J. Gabel, Ph.D.....Professor of Education
 Francis Geigle, Ed.D.....Professor and Head of
 Department of Business Education
 Howard W. Gould, Ph.D.....Professor and Head of
 Department of Physical Sciences
 Eugene Grant, Ed.D.....Assistant Professor of Education
 Clarence Ethel Hardgrove, Ph.D.....Associate Professor of Mathematics
 M. C. Hayes, Ph.D.....Associate Professor of Education
 Earl W. Hayter, Ph.D.....Professor of Social Sciences
 Eugene W. Hellmich, Ph.D.....Professor and Head of
 Department of Mathematics
 Forest W. House, Ph.D.....Associate Professor of Business Education
 Charles E. Howell, Ph.D.....Professor of Social Sciences
 Max S. Huebner, Ph.D.....Director of Student Teaching
 Hugh Jameson, Ph.D.....Professor and Head of
 Department of Social Sciences
 Eino Johnson, Ph.D.....Association Professor of Education
 Frederick Kent, LL.D.....Assistant Professor of Social Sciences
 Howard Leavitt, A.M.....Assistant Professor of Education
 Norman Levardsen, Ph.D.....Assistant Professor of Biological Sciences
 Wendell A. Lindbeck, Ph.D.....Associate Professor of Physical Sciences
 John W. Lloyd, Ed.D.....Professor of Social Sciences
 Lewis McFarland, Ph.D.....Associate Professor of Speech
 Dorothy McGeoch, Ed.D.....Associate Professor of Education
 James J. Martin, Ph.D.....Assistant Professor of Social Sciences
 James Merritt, Ed.D.....Assistant Director of Student Teaching
 Helen R. Messenger, Ph.D.....Professor of Education
 Wallace B. Miner, A.M.....Associate Professor of Physical Sciences
 C. E. Montgomery, Ph.D.....Professor and Head of
 Department of Biological Sciences
 W. V. O'Connell, Ed.D.....Professor and Head of Department of Speech
 Willis Pickard, Ph.D.....Associate Professor of Mathematics
 Phyllis Plichta, Ed.D.....Associate Professor of Education
 Carl W. Proehl, A.M.....Assistant Director of Student Teaching
 Carl Rigney, Ph.D.....Assistant Professor of Physical Sciences
 T. A. Ringness, Ph.D.....Associate Professor of Education
 Frederick W. Rolf, Ph.D.....Associate Professor of Physical Sciences
 W. Paul Street, Ph.D.....Director of Public Relations
 E. Ruth Taylor, Ph.D.....Professor of English
 George L. Terwilliger, Ed. D.....Professor of Biological Sciences
 John J. Twombly, A.M.....Assistant Professor of Social Sciences
 Maude Uhland, Ph.D.....Professor of English
 Eleanor Volberding, Ph.D.....Associate Professor of Education
 Frederic Weed, Ph.D.....Assistant Professor of Social Sciences
 Esther Williams, Ed.D.Professor of Education
 Margaret Wood, Ph.D.....Associate Professor of Speech



ADAMS HALL

THE GRADUATE SCHOOL

Under authority granted by the Illinois State Teachers College Board in 1951, Northern Illinois State Teachers College now offers work leading to the degree of Master of Science in Education. Eight departments offer graduate study for properly qualified students in: Biological Sciences, Business Education, Education, English, Mathematics, Physical Sciences, Social Sciences, and Speech. Each of these departments offers a full major; the Department of Education offers four distinct sequences; and groups of departments collaborate to offer majors in related areas. Within the fields covered by these eight departments, therefore, wide variety in programs is a distinctive feature of the offerings. The course of study is intended to provide advanced education for public school teachers, supervisors, and administrators in this area. Realizing that all students do not have the same background, abilities, or aspirations, the Graduate School wishes to make it possible for each student to follow a program which will make him more effective in the public schools.

Admission Requirements

A candidate for admission to the Graduate School must (1) hold a baccalaureate degree from an approved institution whose requirements for the degree are substantially equivalent to those of Northern Illinois State Teachers College or (2) be in the last quarter of work leading to that degree from Northern Illinois State Teachers College.

All entering students must have a physical examination. This examination must be given by the family physician, and is to be reported on a health chart furnished by the College. A smallpox vaccination at the time of examination is required unless a certificate of successful vaccination during the last three years can be furnished. The report of physical examination should be returned to the Student Health Service at least one week preceding the beginning of the quarter in which the student plans to enroll.

Areas of Specialization

The student may select a major field of study from any of the participating departments named above; or in some cases he may select an inter-departmental or "area" major. Such combined majors are offered in English-Speech, English-Social Sciences-Speech, and Mathematics-Sciences. (See p. 21).

Application for Admission

Students who wish to register for graduate study should write to the Director of the Graduate School, requesting a copy of the form "Application for Admission to the Graduate School." This form should be completed and returned to the Director as early as possible, preferably a week or more in advance of registration.

A student who holds the baccalaureate degree from another college should ask the registrar of that college to forward a transcript of his academic record to the Director of the Graduate School.

Registration

Graduate students are expected to register during the regular registration period at the beginning of each quarter (see calendar). Those who register after the specified dates are required to pay a "late registration fee" of \$3.00.

Arrangements for registration and for assignments to advisory committees are made through the Office of the Director of the Graduate School.

Auditors

Any full time graduate student may be permitted to audit, without added fees, one or more additional courses, either undergraduate or graduate, provided approval is first obtained from the chairman of the student's advisory committee, the instructor of the course, and the Director of the Graduate School. A student who enrolls as an auditor in a course may not take the examinations in the course and will not receive credit.

Part time students may be permitted to audit additional courses on the same basis as regular students upon the payment of an added fee of \$3.50 per quarter hour or \$5.00 per semester hour, with the provision that the total amount of fees paid will not exceed \$30.00 per quarter.

Expenses

The average total expense for room, board, books, and supplies is approximately \$650 to \$750 for the academic year. The fees for graduate students are as follows:

Fulltime students (per quarter)

Registration fee	\$20.00
Activity fee	10.00
Additional fee for non-residents of Illinois.....	30.00

Part-time students (eight quarter hours or less)	
Minimum fee	7.00
Per class hour	3.50
(No activity privileges are extended.)	

Special fees

Matriculation fee (payable upon first admission only)	5.00
Graduation fee (payable at time of graduation only)	10.00
Late registration fee	3.00
Change of program fee	1.00
Duplicate transcript of record (after the first is issued)	1.00

Transcripts are not issued to persons who are under financial obligation to the College or to the College Loan Fund.

Fees are due at the time of registration. No refunds on fees are granted after ten calendar days following the beginning of the quarter.

Changes in class programs will be permitted only with the approval of the student's advisory committee, and a charge of \$1.00 will be made for each program change after the third day of the quarter.

Students registering for a laboratory course in chemistry are required to purchase a \$5.00 "breakage coupon" at the Business Office. Refunds will be made on unused portions of the coupon.

The incidental and activities fees cover the following services and privileges: registration, library, health service, gymnasium; admission to athletic events, concerts, dramatic productions, lectures, and speech events; subscriptions to the weekly college paper and the college annual.

Veterans' Benefits

Veterans' benefits are available to graduate students under Public Law 346. After admission to the Graduate School, a veteran who has entitlement under the law should apply to a regional office of the Veterans Administration for a supplementary letter of eligibility. In order to continue under P. L. 346, a veteran must have been in training on or before July 25, 1951, and must have remained in continuous training. However, regularly employed teachers are permitted to maintain continuous training by attendance at successive summer sessions. Benefits under this program include tuition, fees, books, and subsistence.

Veterans' benefits are available under the Illinois State Scholarship Law for those veterans who do not claim benefits under P. L. 346. After admission to the Graduate School, a veteran must present proof of his honorable discharge and legal residence in the state. This benefit provides a maximum of \$80 per year toward the payment of college fees.

The Assistant Dean of Men will aid veterans in securing either of these benefits.

Living Accommodations

The Dean of Men and the Dean of Women list rooms that are for rent in private homes but do not make reservations for students. Rooms are available at approximately \$5.00 a week per person. In some cases, for a small additional charge, cooking facilities are provided.

The College maintains two residence halls for women—Williston Hall for freshmen, sophomore, and junior women; and Adams Hall for junior, senior, and graduate women students. The rate for board and room at Adams Hall is \$16.00 per week for those living in double rooms and \$16.50 per week for those living in single rooms. Draperies, bedspreads, and linens (except towels) are furnished. Application for rooms in Adams Hall and all inquiries regarding housing for women should be addressed to the Dean of Women.

Gilbert Hall, the new dormitory for men, has rooms available for graduate students. The rate for board and room is \$16.00 a week, payable two weeks in advance. Further information regarding housing for men may be obtained at the Office of the Dean of Men.

The College Cafeteria serves meals at a nominal cost. Fountain and short-order service is provided by the College Tea Room.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE IN EDUCATION

Candidacy

Admission to the Graduate School does not necessarily imply admission to candidacy for the master's degree. Upon the completion of twelve quarter hours of graduate work, and not later than the beginning of his final quarter, a student shall file application in the office of the Director of the Graduate School for admission to candidacy.

Deficiencies

A student will not be admitted to candidacy for a degree until he is following a program approved by his advisory committee which insures satisfaction of the requirements for certification to teach in Illinois.

A graduate of an approved college or university shall be presumed to be eligible for advanced work in any department if he presents a major in the area of work of that department. Any specific courses or their equivalents which are prerequisites to advanced courses shall be looked upon as deficiencies, to be made up at the undergraduate level before the student takes such advanced courses.

Graduates of other colleges who elect the sequence in education for secondary school teachers will be expected to regard as deficiencies those courses necessary to bring the amount of education up to the level of that required for the baccalaureate degree in secondary education from Northern Illinois State Teachers College. Students wishing to take a major in education for elementary school teachers will be expected to regard as deficiencies those courses necessary for certification as an elementary school teacher in the State of Illinois.

Credit Requirement and Grading System

A candidate for the master's degree must earn a minimum of forty-five quarter hours of graduate credit and a minimum grade average of B. Graduate credit is given only in those courses in which a grade of C— or better is earned. Grades and their honor point values are as follows:

Grade	Honor Points per unit credit
A	3
B	2
C+	1
C	1
C—	1
D	0
F	—1
Inc. (Incomplete)	0
Dr. (Dropped)	0
S. (Satisfactory)	0
N.S. (Not-satisfactory)	0

The grade average of all graduate students is computed on a cumulative basis, including the record of all graduate work which has been transferred to the record here. The honor point average at any time is the quotient obtained by dividing the total number of honor points by the total number of properly weighted credit courses which the student has taken up to that time.

In general, graduate classes meet on the basis of one hour of credit for each class hour. Certain classes, however, are of such nature that they require more than one hour of attendance for each hour of credit; and some courses confer more than one hour of credit for each hour in class. Particular information regarding a specific course may be obtained from the instructor, or from the office of the Director of the Graduate School.

Residence Requirement

To satisfy the requirements for the master's degree a student must spend in residence two regular quarters or two summer quarters, or a combination of one regular quarter and one summer quarter, with a minimum load of eight quarter hours per quarter; with the stipulation that no quarter in which the student is gainfully employed full time shall count as satisfying any part of this requirement. The minimum required number of hours in residence is thirty-two.

Credits Transferable

A student will be allowed to transfer a maximum of nine quarter hours of graduate credit from another institution, none of which shall be in extension or correspondence work.

Credit for Extension Work

With the approval of the major department, a student will be permitted to offer for credit a maximum of nine quarter hours in extension work taken from this institution.

Courses for Which Credit is Allowed

Only courses numbered 400-499 and 500-599 will carry graduate credit. Not more than fifty per cent of the credit counted toward the degree may be earned in courses numbered 400-499.

Completion of Graduate Work

All work for the master's degree must be completed within a period of six years unless exception is granted by the Graduate Council.

Qualifying Paper

Before taking the final comprehensive examination, a candidate must submit a qualifying paper. Its subject must be approved by the chairman of the student's advisory committee, and when completed it must be approved by the professor under whom it was written. The original paper and two carbon copies must be submitted to the office of the Director of the Graduate School. A record showing approval by the two staff members involved must be filed in the office of the Director of the Graduate School at least one week before the candidate appears for examination.

Examinations

Final comprehensive examinations, either oral or written or both, are required of all candidates for the master's degree at some time within the month preceding the completion of work for the degree, but in any case at least two weeks before such completion. These examinations are given by the department or departments in which the major is taken. Students eligible for an examination must file with their major advisors and the office of the Graduate School a notice of their intent to present themselves for it. Departments concerned will post notices of the date and place of each examination at least two weeks before it is to be administered.

Advisory Committees

Each student is assigned to an advisory committee, consisting of three or more members of the Graduate Faculty, whose purpose is to guide his selection of a program of studies and to recommend him, when properly qualified, for the degree. The chairman of each advisory committee is selected from the department in which the student is majoring, and the Department of Education is represented on every committee.

GENERAL INFORMATION

Northern Illinois State Teachers College is located in DeKalb, a city of 12,000 people. It is sixty miles west of Chicago on United States Highway Alternate 30 and on State Highway 23. DeKalb is served by the Chicago and Northwestern Railroad and the Greyhound Bus Lines.

The Northern Illinois State Normal School was established by an act of the General Assembly in 1895 and began its work of educating teachers in September, 1899. By legislative enactment June, 1921, Northern Illinois State Normal School became Northern Illinois State Teachers College, and since that time two-year and four-year curricula have been offered to prepare elementary school teachers and high school teachers. However, in July, 1943, the awarding of a diploma for completion of the two-year curriculum was discontinued. Since 1921 the baccalaureate degree has been conferred upon the satisfactory completion of four years of college work.

In September, 1943, the Teachers College Board changed the original title of the degree conferred by the five State Teachers Colleges from Bachelor of Education to Bachelor of Science in Education. In the fall of 1945 a Two-Year General Education Curriculum was added with the approval of the Teachers College Board.

Early in 1951 the Teachers College Board approved a graduate program for Northern Illinois State Teachers College. This program was first offered in the summer of 1951.

BUILDINGS AND CAMPUS

The campus, covering over two hundred acres, is situated in the western part of the city and has entrances on Lincoln Highway, College Avenue, Lucinda Avenue, and Normal Road. The Kishwaukee River flows along its eastern border. Adjacent to the river are two small lakes. A part of the campus is heavily wooded, and much of it has been planted with shrubbery and flower gardens. The campus of "Northern" is not only one of the beauty spots of the state but one of the most beautiful teachers college campuses in the country.

The campus building group comprises the Administration Building, Science Building, Williston Hall, Adams Hall, Gilbert Hall, the Home Management House, Parson Library (now under construction), McMurry Laboratory School, the Industrial Arts Building, the Men's Gymnasium, the Veterans' Housing Project, the Cafeteria, and the College Tea Room.

The main library is now located on the second floor of the Administration Building. Over 78,000 books and more than 1,000 pamphlets are available for use. While the direct needs of the various departments are given first consideration, recreational reading has not been neglected. Reference and reserve books, as well as bound and current periodicals, are found in the reading rooms. The stack room (open to students) contains books for general circulation and approximately 500 current magazines. Industrial Arts material is kept in the Industrial Arts Building. A juvenile library is housed in the McMurry Laboratory School for the elementary grades. The library is staffed by eight librarians and from twenty-five to thirty student assistants.

A new library building, the Swen Franklin Parson Library, now nearing completion, is located directly north of the Science Building and west of the Administration Building. In addition to reserve and reference reading rooms, it includes a browsing room, curriculum laboratory, seminar rooms, a small auditorium, art and music-listening rooms, visual education department, and a classroom for instruction in library science.

The castellated towers of the Administration Building contribute to the beauty of the whole campus. The building contains the administrative and business offices, an auditorium, student lounges, women's gymnasium, student health center, art and music rooms, classrooms, and offices for faculty members.

The Science Building, dedicated on Commencement Day in 1943, contains over one hundred rooms, including well-equipped laboratories, class and lecture rooms, auxiliary rooms, and offices.

Williston Hall, a four-story brick residence for 250 college women, is located near the Administration Building. The rooms are comfortably furnished and the hall has a homelike atmosphere. On the main floor are dining room facilities, a lounge, offices, and living quarters for residents. A recreation room and kitchenette are located in the basement.

Karl L. Adams Hall, which was opened in September, 1949, houses 120 junior, senior, and graduate women students, and is planned to meet their needs in accordance with recent trends in the housing of women students. Constructed of Illinois limestone, Adams Hall is decorated in bright colors and furnished attractively. Pictures by modern artists add to the interest of the living rooms.

Newell D. Gilbert Hall, a newly completed dormitory, houses 374 men. It includes dining room facilities, lounges, and offices in addition to completely modern rooms for students.

The Home Management House, located across the street from the new college library, is used by the Home Economics Department as a home for the seniors who wish to satisfy the requirements of high schools that employ vocational home economics teachers. The Home Management House affords an ideal laboratory for an important part of education offered in the field of home economics.

The McMurry Laboratory School is a campus elementary school which serves as an observation and demonstration center and as a laboratory for student teaching. The college has recently completed the purchase of fifty-five acres of land located west of the main campus; some of this land is to be used in the future for a completely new laboratory school.

The Industrial Arts Building, located east of the Administration Building, contains laboratories for graphic arts, woods, metals, electricity and drawing, as well as classrooms and offices. A laboratory of industry and science occupies the entire second floor and represents one of the modern developments in industrial arts work.

In the Men's Gymnasium are classrooms, locker and shower rooms, a handball court, an athletic training room, and a basketball floor of regulation size with modern roll-away bleachers. East of the Men's Gymnasium lie the new varsity football field and track. North of the gymnasium and across Lucinda Avenue are the intramural athletic fields, which include facilities for such individual sports as tennis and badminton.

The Veterans' Housing Project includes forty-eight apartments for married students.

The College Cafeteria is conveniently situated on the west side of the drive which extends from Lucinda Avenue to the heating plant. At the east entrance to the campus on College Avenue is the College Tea Room, open for fountain and short-order service and offering facilities for special banquets and parties.

A Book Exchange, operated by the College, is conveniently located north of the Administration Building on Garden Road. Used textbooks are bought and sold at this exchange, and incidental supplies necessary for class work may be purchased there.

HEALTH SERVICE

The Student Health Service, under the supervision of a physician, has headquarters in the Administration Building and is open during class hours. Students have the privilege of visiting the clinic for consultation, advice and treatment, and also for discussing health problems.

Hospitalization service, in either of the two hospitals in DeKalb, is furnished by the College, upon the recommendation of the college physician, for a period not to exceed seven days a year. The service provides room and board for seven days in a semi-private room and laboratory fees up to \$15.00. Physicians', surgeons', and private nurses' fees are extra and are paid by the student.

STUDENT TEACHING

Since student teaching is required for certification in Illinois, facilities for student teaching will be made available for graduate students.

ASSISTANTSHIPS AND AWARDS

A limited number of graduate assistantships are offered. They provide a maximum stipend of \$150 per month for the nine months of the academic year. Assistants are selected for their ability, and are appointed on a half time basis with the understanding that their academic load may not exceed eight hours each quarter.

A number of Graduate Awards are available to qualified students. They provide a stipend of \$75 a month for the nine months of the academic year, and require four to six hours of work a week in an assigned department. Recipients are selected by a committee on the basis of their academic record and potential effectiveness as teachers. They are expected to carry approximately three-fourths of a full course load. Application forms for Graduate Awards and Assistantships can be procured from the office of the Director of the Graduate School.

THE PLACEMENT BUREAU

All available information shows that there will be a continued critical need for teachers, especially in the elementary field. To aid students to secure desirable teaching positions the college, through its Placement Bureau, makes available to school officials or other prospective employers the credentials of its graduates. These credentials contain the following information regarding each student: (1) Academic record and scholastic standing (2) Student teaching record (3) Actual teaching experience (4) Personal evaluation made by instructors, critic teachers, and other supervisors. When the number of candidates seeking positions exceeds the number of calls for teachers, it is the policy of the Placement Bureau to place teachers in the order of their superiority with reference to the points enumerated above.

The Bureau not only arranges for the placement of current graduates but also promotes the interests of those who have had several years of successful teaching experience.

EXTRACURRICULAR ACTIVITIES

In general, graduate students are invited to participate in undergraduate activities (including band, orchestra, and chorus) which do not involve intercollegiate competition. Information regarding specific organizations can be obtained at the office of the Director of the Graduate School.

DEPARTMENTAL REQUIREMENTS FOR GRADUATE MAJORS AND DESCRIPTION OF COURSES

The student may select a program leading to the master's degree from any of the departments listed in the following pages; or, in some cases he may select an area major that cuts across departmental lines. Area majors are planned at present in the following combinations:

English-Social Sciences-Speech

English-Speech

Mathematics-Sciences

Information regarding area majors may be obtained by communicating with the head of any of the departments concerned.

When departmental programs are under consideration, the student is advised to consult carefully the section of this catalog devoted to requirements for admission to the Graduate School and requirements for the master's degree.

Departmental offerings will depend largely on the demand. In accordance with this policy, the College may find it necessary in some cases to withdraw courses designated to be offered in a given quarter and in other cases to offer courses not designated for the quarter.

DEPARTMENT OF BIOLOGICAL SCIENCES GRADUATE MAJOR IN BIOLOGY

Students who elect a graduate major in biology must satisfy the following course requirements in biology:

- (a) Courses 416, 500a or 500b, 540, 542, 561, and 570.
- (b) Eight additional quarter hours credit from courses offered on the 400 or 500 levels.

Description of Courses

BOTANY

- | | | |
|-----|--|---------------|
| 410 | Plant Anatomy
Structure, development, and kinds of plant tissues. Various types of tissues in their different relations and adaptations considered.
Prerequisite: One year of botany.
Four quarter hours credit. | Winter |
| 412 | Mycology
Structure and classification of fungi with emphasis on pathological relations. Diagnostic techniques are included.
Prerequisite: 211.
Four quarter hours credit. | Autumn |

- 414 Taxonomy** **Spring**
 Fundamental principles of classification of higher plants. Ecological distribution.
 Prerequisite: One year of botany.
 Four quarter hours credit.
- 416 General Ecology** **Spring**
 General ecological principles and the structure of various types of plant and animal communities. Includes field trips to representative areas.
 Prerequisite: 212, 252, or permission of instructor.
 Four quarter hours credit.
- 510 Advanced Plant Physiology** **Spring**
 Physico-chemical activities of plant growth and development.
 Prerequisite: 310. Physical Science 105, 165, or equivalent.
 Four quarter hours credit.
- 512 Plant Pathology** **Winter**
 Specific causal agents of plant diseases, their identification and control measures. Emphasis placed on parasitism and the economy of crop diseases.
 Prerequisite: 412.
 Four quarter hours credit.
- 515 Plant Histology and Microtechnique** **Autumn**
 Practical laboratory methods in botanical (histochemical) and microtechnique including tests for wall and protoplasmic substances.
 Prerequisite: 310 and 410.
 Four quarter hours credit.
- 516 Advanced Ecology** **Autumn**
 Continuation of 416. Influence of environmental factors upon distribution of organisms evaluated. Representative areas analyzed in detail.
 Prerequisite: 416 or permission of instructor.
 Four quarter hours credit.
- 520 Advanced Plant Morphology** **Winter**
 Vegetative and reproductive structures and their development. Emphasis on structural relationships between related groups.
 Prerequisite: 212 and permission of instructor.
 Four quarter hours credit.

HEALTH

- 401 Principles of School Health** **Winter**
 Principles of planning school health programs. Methods of promoting healthful school environment discussed.
 Prerequisite: 255 and 355.
 Four quarter hours credit.

- 402 Community Health** **Spring**
 Community health needs including environmental sanitation and general measures for disease prevention. Role of governmental and voluntary agencies discussed.
 Prerequisite: 255 and 355.
 Four quarter hours credit.
- 501 Advanced School Health** **Spring**
 The school health program as it relates to the administrator and the teacher.
 Prerequisite: 401.
 Four quarter hours credit.
- 513 Epidemiology** **Winter**
 Causes, detection, and prevention of approximately forty common communicable diseases.
 Prerequisite: 313.
 Four quarter hours credit.

ZOOLOGY

- 450 Parasitology** **Autumn**
 Animal parasitism with emphasis on the external and internal parasites of man.
 Prerequisite: 251.
 Four quarter hours credit.
- 452 Comparative Vertebrate Anatomy** **Winter**
 Relationships of vertebrate classes as demonstrated by embryological, morphological and paleontological evidence.
 Prerequisite: 252.
 Four quarter hours credit.
- 454 Embryology** **Winter**
 Principles and processes in the development of vertebrates. Detailed study of embryology of chick.
 Prerequisite: 252.
 Four quarter hours credit.
- 540 Experimental Genetics** **Winter**
 Fundamental principles of genetics and cytogenetics illustrated by laboratory work with fruit fly, mold, or other suitable organisms.
 Prerequisite: 340.
 Two quarter hours credit.
- 542 Evolution** **Autumn**
 Theories of evolution; development of concept of evolution; factors in organic evolution.
 Prerequisite: Graduate standing.
 Two quarter hours credit.

- 543 Cytology and Histology** **Autumn**
 Combination study of cell structure and tissue differentiation including both plants and animals.
 Prerequisite: 212 and 252.
 Four quarter hours credit.
- 554 Advanced Embryology** **Spring**
 Continuation of 454. Detailed study of mammalian development. Assigned experimental work.
 Prerequisite: 454 or permission of instructor.
 Four quarter hours credit.
- 555 Advanced Physiology** **Autumn**
 Functional interrelations of organ systems. Special topics in physiology. Laboratory consists of experimental techniques and practical demonstrations.
 Prerequisite: 355.
 Four quarter hours credit.
- 560 Field Zoology** **Spring**
 Collection, preservation and identification of lower vertebrates and terrestrial and aquatic invertebrates. Detailed study of habits and life histories of selected forms.
 Prerequisite: Graduate standing.
 Four quarter hours credit.
- 500a Science Problems of Elementary Grades** **Winter**
 Development of constructive attitudes toward modern science in relation to problems in the elementary school. Techniques and materials used in project work included. (Satisfies requirements for Education 584.)
 Prerequisite: Graduate standing.
 Two quarter hours credit.
- 500b Methods and Materials for High School Biology** **Winter**
 Survey of problems of teaching biology in high school. Current research in this area studied.
 Prerequisite: 300.
 Two quarter hours credit.
- *561 Seminar** **Every Quarter**
 Discussions of scientific literature and current problems in biology. Special topics assigned to students.
 Prerequisite: Thirty hours in biology.
 One to two quarter hours credit.
- *570 Special Problems in Biology** **Every Quarter**
 Independent study of problems under supervision of advisor appointed by Departmental Head.
 Prerequisite: Permission of Departmental Head.
 One to four quarter hours credit.

*Course may be repeated for additional credit.

DEPARTMENT OF BUSINESS EDUCATION

GRADUATE MAJOR IN BUSINESS EDUCATION

Students who elect a graduate major in business education must satisfy the following course requirements in business education :

- (a) Courses 500 and 510.
- (b) At least eight quarter hours credit in courses 520, 521, 522, and 523.
- (c) Additional quarter hours of credit to make a total of twenty-eight to be selected from courses offered on the 400 and 500 levels.

Description of Courses

- | | | |
|-----|---|---------------|
| 400 | Methods of Teaching Business Subjects | Spring |
| | A study of methods, materials, tests, programs, and other aspects of the teaching of the skill and non-skill business subjects in high schools. Four quarter hours credit. | |
| 411 | Business Law I | Winter |
| | A study of the law of contracts, agency, negotiable instruments, labor legislation, insurance, and suretyship. Some attention is given to court systems with special emphasis on the courts of Illinois. Case materials and problems are used. Four quarter hours credit. | |
| 412 | Business Law II | Spring |
| | The law of bailments, common carriers, sales, partnerships, corporations, property, bankruptcy, torts, and business crimes are studied. Problems and case materials are used. Four quarter hours credit. | |
| 415 | Consumer Economics | Winter |
| | This course is a study of the economics of consumption with particular attention given to an analysis of the factors and forces underlying consumer demand. Four quarter hours credit. | |
| 416 | Insurance | Spring |
| | A study of the basic principles of life insurance, fire insurance, casualty insurance, marine insurance, and surety and fidelity bonds. Four quarter hours credit. | |
| 420 | Business English and Correspondence | Spring |
| | The use of correct and forceful English for business purposes. Attention is given to the various types of business correspondence. Ample practice is given in writing various types of business letters and reports. Four quarter hours credit. | |
| 430 | Business Organization and Finance | Winter |
| | Fundamental principles of operating, organizing, and financing the individually owned and corporate form of business enterprise. Some | |

topics discussed are: getting started in business; important relationships within the framework of the business organization; problems of location, housing, equipment, layout, purchasing and shipping.
Four quarter hours credit.

- 431 **Principles of Management** **Autumn**
The fundamentals of management; phases of administrative, staff, and operative management; and application of principles and techniques.
Four quarter hours credit.
- 432 **Office Management** **Winter**
Application of the principles of management to the planning, organizing, and controlling of office work; problems of office standards, business forms, and office methods.
Four quarter hours credit.
- 433 **Personnel Management** **Spring**
Basic principles and procedures relating to employment, industrial health and safety, labor relations and morale, employee education and training, and wage and salary administration.
Four quarter hours credit.
- 440 **Principles of Salesmanship** **Autumn**
Techniques of selling in modern business; the sales department; and the salesman's function in the selling process.
Four quarter hours credit.
- 441 **Principles of Marketing** **Winter**
This is an introductory course dealing with the functions of the marketing process and marketing institutions. Such topics as cost of marketing, produce exchanges, mail-order and chain stores, co-operatives and price are considered.
Four quarter hours credit.
- 442 **Advertising** **Spring**
The fundamentals of advertising in relation to modern business activities; advertising media, campaigns, and systems are considered.
Four quarter hours credit.
- 450 **Money and Banking** **Winter**
This course provides a short historical survey of money and the evolution of banking. The organization and the operation of banks, monetary theory and markets, and the functions of the Federal Reserve System are discussed.
Four quarter hours credit.
- 455 **Individual and Business Taxation** **Spring**
A study of the various types of Federal, State, and Local Taxes as they apply to the individual and various types of business organizations. Blanks and forms are used in the analysis of taxation problems.
Four quarter hours credit.

500 Principles and Problems of Business Education

Designed to develop an understanding of the characteristics of present-day business education in terms of its basic principles and typical practices, problems, and trends.

Four quarter hours credit.

510 Administration and Supervision of Business Education

General managerial problems of business education in the secondary school, designed for in-service business teachers. Administrative and supervisory problems pertaining specifically to business education are: curriculum construction and materials, student measurement and evaluation, classroom supervision and rating, physical layout, and administration of supplies, textbooks and equipment.

Four quarter hours credit.

520 Techniques for Improvement of Instruction in Stenography

A study of teaching techniques and an evaluation of research in methodology for the purpose of improving the instruction in shorthand and transcription. Remedial practices, methods of motivation and the use of classroom materials will be discussed through an exchange of ideas and experiences.

Four quarter hours credit.

521 Techniques for Improvement of Instruction in Typewriting

Methods of improving the techniques of teaching typewriting through an examination of current research and the discussion of such problems as: typewriting in the curriculum; objectives, testing and grading for beginning, advanced and personal-use classes; remedial practices; motivation; and the use of materials and supplies.

Four quarter hours credit.

522 Teaching Procedures in Bookkeeping and Accounting

A study of the problems and techniques in the teaching of bookkeeping. The place of bookkeeping in the curriculum, methods of motivation, the use of visual aids and practice sets, testing and grading, and problems of individual teachers will be discussed.

Four quarter hours credit.

523 Methods and Materials in Teaching General Business

Designed primarily to improve the techniques of teaching the general and social-business subjects generally found in the secondary school commercial curriculum. An evaluation of classroom materials, methods, research, and current trends will be made through a mutual exchange of ideas and experiences.

Four quarter hours credit.

530 Seminar in Consumer Problems

Some of the problems considered in this course are: personal budgeting, the co-operative movement; consumer standards and grade labels; governmental aids for consumers; the buying of shelter, insurance and investments; the use of installment buying and other forms of credit.

Four quarter hours credit.

540 **Financial Statement Analysis**

Analysis and interpretation of financial reports with particular reference to the construction of statements, the meaning of accounts, ratios, and other evaluating indices.

Four quarter hours credit.

550 **Practicum in Office Machines**

Fundamentals of operating the dictaphone and transcription machines; key driven and rotary calculators; adding and listing machines; and duplicating machines.

Four quarter hours credit.

560 **Seminar in Marketing**

A study of the problems involved in the performance of the marketing functions at the various levels of distribution and of the problems of policy determination by the manufacturer, the wholesaler, and the retailer.

Four quarter hours credit.

**DEPARTMENT OF EDUCATION
GRADUATE MAJOR IN EDUCATION**

Students who elect a graduate major in education must satisfy the following course requirements in education :

- (a) Courses 500, 501, 510, 511, 512, 513, and 572 are required of majors in Education for Elementary School Teachers.
- (b) Courses 500, 501, 510, 521, 523, 525, 561, and 572 are required of majors in Education for Secondary School Teachers.
- (c) Courses 531, 532a, 532b, 534, 535, and 561 are suggested for those interested in preparing for teaching in core programs.
- (d) Courses 500, 501, 510, 541, 542, 543, 551, and 572 are required of majors in Education for Supervisors and Curriculum Directors.
- (e) Courses 500, 501, 510, 542, 551, 552, 553, 554 are required of majors in Education for School Administrators.

Within each special sequence certain proficiencies are required. If the student has the proficiencies, he may be excused from the course or courses set up for the purpose of developing these proficiencies. Field work under college supervision may be utilized to develop proficiencies and substituted for regular course work.

Description of Courses

405 Supervision of Instruction

Spring

Supervision as educational leadership with consideration of teacher-supervisor relationship, supervisory principles, and techniques, prac-

tices, and means of evaluation.
Prerequisites: 310 and 321 or 322.
Four quarter hours credit.

406 Philosophy of Education in American Democracy **Spring**

Current educational philosophies studied for the purpose of answering the questions: What is education? What should education accomplish? By what means can this be done?
Prerequisite: 350 or 356.
Four quarter hours credit.

407 School Administration

A study of administrative problems common to schools of ordinary size. Course stresses such topics as: the superintendent, the school board, the instructional staff, pupil personnel, school plant, management of instructional materials, and finance.
Open only to seniors and graduate students.
Four quarter hours credit.

409 Personnel and Guidance **Spring**

A survey of principles and techniques of guidance in educational institutions.
Four quarter hours credit.

415 Treatment of Exceptional Children **Autumn and Winter**

Psychology of atypical children—gifted, mentally subnormal, physically handicapped, socially maladjusted, educationally retarded. Provisions for meeting special needs in special or regular classes, and in institutions. Visits to schools and institutions.
Prerequisite: 350 or 356.
Four quarter hours credit.

416 Personality Maladjustments and Mental Hygiene **Autumn and Spring**

Personality development from infancy through adulthood; healthful and unhealthful modes of adjustment; prevention of maladjustments. Treatment of personality problems in school, clinic, and mental hospital. Visits to institutions.
Prerequisite: 350 or 356.
Four quarter hours credit.

424 Basic Procedures in Guidance of Learning (High School) **Every Quarter**

Principles of teaching and learning analyzed with emphasis on topics such as: functional units, the improvement of traditional procedures, the core curriculum, and techniques of classroom organization.
Prerequisite: 356.
Four quarter hours credit.

430 **Audio-Visual Education** **Autumn and Spring**

A study of the selection, evaluation, and utilization of various audio-visual materials and techniques used in the instructional program. Provides opportunities to operate the various projectors used in such a program.

Prerequisite: 350 or 356.

Four quarter hours credit.

433 **Junior High School Organization and Problems** **Winter**

A survey of the development of the junior-high-school idea, reason for reorganization, administration problems, program making, extracurricular activities, vocational guidance, student participation in school government, and the junior-high-school plant.

Offered every other year.

Prerequisite: 350 or 356.

Four quarter hours credit.

435 **American Public Education** **Autumn**

An overview of the organization of American public education, stressing a teacher's point of view of the major aspects of organization and administration of public schools, and public school legislation.

Prerequisite: 350 or 356.

Four quarter hours credit.

Ad. 466 482 **Reading in the High School** **Spring**

(Also listed as English 482)

A study of the reading problems of high school students.

Four quarter hours credit.

490 **Beginning Student Teaching** **Every Quarter**
(Elementary Grades)

The first experience in student teaching for elementary majors with approximately three years of college or more. Includes experiences in guiding learning for both small and large groups of children.

One-half day. Eight quarter hours credit.

or

One-fourth day. Four quarter hours credit.

491 **Advanced Student Teaching** **Every Quarter**
(Elementary Grades)

Emphasis on preparation and presentation of large teaching units and full classroom responsibility.

Prerequisite: 490.

One-fourth day. Four quarter hours credit.

or

One-half day. Eight quarter hours credit.

492 **Advanced Student Teaching** **Every Quarter**
(Elementary Grades Elective)

Opportunity to earn additional credit in student teaching for students needing or desiring it. Assignment made only if facilities permit.

Prerequisite: 491.

Four quarter hours credit.

- 493 Student Teaching (Elementary Grades, Special Subjects) Every Quarter**
 Analyzed experiences in teaching children in one of the following fields: fine arts, home economics, industrial arts, music, physical education, and speech correction.
 Four quarter hours credit.
- 494 Student Teaching (Elementary Grades, Elective) Every Quarter**
 Students majoring in the curricula for high school teachers may elect this course for either the first or an additional opportunity to work with elementary children in any phase or phases of the elementary curriculum depending upon available facilities.
 Four quarter hours credit.
- 495-a, b, or c. Student Teaching (High School) Every Quarter**
 This course or 496 is required of all students in the curriculum for the education of high school teachers. It may be completed in one of the following ways:
- a. A student may be assigned to student teaching a half-day (four hours) for one quarter. During this time he will do responsible teaching with two high school groups, reserve an hour each day for the student teaching seminar, and an hour for conference with his supervising teacher. Eight quarter hours credit.
 (or)
 - b. A student may be assigned to student teaching one-quarter of the day (two hours) for two quarters. During this time he will do responsible teaching with one high school group, reserve an hour each day during the first quarter for the student teaching seminar and an hour each day in both quarters for conference with his supervising teacher. Four quarter hours credit each quarter.
 (or)
 - c. A student majoring in one of the fields requiring Student Teaching 493 may, after completing that course, be assigned for his 495 teaching in an out-of-town high school. The student will live in the community to which he is assigned for six weeks and give his entire time to teaching. Eight quarter hours credit.
- 496 Student Teaching (Off-Campus) Every Quarter**
 Student teaching in this course will be done at the appropriate school level in out-of-town schools. These schools and the training teachers who supervise students taking this course will be very carefully chosen from among the best schools in this area. A student taking this course will be expected to live for a period of twelve weeks in the community in which that school is located, and will spend a full day each day at that school. Assignments will be made on the basis of facilities available at the DeKalb Township High School, facilities available in out-of-town schools chosen for this work, and the total number of the students making application.
 Sixteen quarter hours credit.

- 500 **Social Foundations of Education** **Autumn and Spring**
 A study of the relation of education to society with particular emphasis upon problems of the present age; attention directed to significant cultural trends and their implications for schools.
 Four quarter hours credit.
- 501 **Psychological Foundations of Education** **Autumn and Winter**
 Methodology of psychological research. Survey of important investigations with implications for educational practice. Detailed study of psychological problems of concern to individual students.
 Four quarter hours credit.
- 502 **The Teaching of Arithmetic in the Elementary School** **Spring**
 (Also listed as Mathematics 502)
 Consideration of interrelationships in arithmetic, research in the area, and materials of teaching.
 Prerequisite: 300 or equivalent or teaching experience.
 Two quarter hours credit.
- 22503 **503 Independent Research in Education**
 510 **Methods of Evaluation** **Autumn and Spring**
 Emphasis on modern concepts of evaluation; construction and validation of evaluative instruments; use of standardized tests and scales; and procedures of evaluating relatively intangible outcomes.
 Three quarter hours credit.
- 511 **Understanding and Guiding the Elementary School Child** **Autumn**
 Major emphasis on gathering data on needs of children, evaluating the school programs in laboratory situations, and analyzing new literature in child development.
 Eight quarter hours credit.
- 512 **The Elementary School Curriculum** **Winter**
 A study of basic principles in the construction and administration of modern school curricula, the relation of the curriculum to society, and present practices in the schools.
 Three quarter hours credit.
- 513 **Problems in Elementary Education** **Winter**
 A seminar requiring individual investigations of problems in elementary education culminating in a research project.
 Three quarter hours credit.
- 521 **Understanding and Guiding Youth in the Secondary School** **Spring**
 Laboratory course with emphasis on direct experiences with secondary school youth. Intensive study of research materials that deal with understanding the nature of adolescents and techniques of guidance.
 Eight quarter hours credit.

- 523 Problems in Secondary Education** **Winter**
A seminar requiring individual investigation of problems in secondary education, culminating in a research paper.
Three quarter hours credit.
- 525 Internship Experience in Secondary Schools** **On Demand**
An opportunity for qualified students to work individually or in small groups under guidance of a college staff member in selected school situations. Includes direct experience and research.
Credit to be arranged.
- 531 The Core Curriculum** **On Demand**
An introductory course for students interested in developing an understanding of the core curriculum in the junior and senior high school. Emphasis is placed upon the philosophy and psychology underlying the core concept.
Four quarter hours credit.
- 532-a and b. The Selection, Organization and Guidance of Laboratory Experience in the Core Curriculum** **On Demand**
A laboratory course for advanced study in core curriculum and teaching. Attention is given to effective teaching techniques applicable to the core: cooperative planning, fostering of creativity, group discussion techniques and teaching materials and aids.
Prerequisites: 531 and permission of the instructor.
Eight quarter hours credit.
- 534 Evaluation of Pupil Progress in the Core Curriculum** **On Demand**
A course designed to give students an understanding of newer evaluative practices. A study of techniques to evaluate personal-social adjustment, including cumulative records, behavior descriptions, cooperative evaluation, and reports to parents in the core curriculum.
Two quarter hours credit.
- 535 Field Work in Core Curriculum and Teaching** **On Demand**
An opportunity for qualified students to work individually or in small groups under the guidance of a member of the staff of the department on an approved problem of special concern to the student with a background of study in core work.
Permission required.
Credit to be arranged.
- 541 The Improvement of Instruction through** **On Demand**
~~Organizations, purposes, and procedures for supervision; analysis of teaching-learning situations with emphasis upon the supervisor's function in diagnosis and improvement of instruction. Observations and discussions with teachers and supervisors.~~
Organizations, purposes, and procedures for supervision; analysis of teaching-learning situations with emphasis upon the supervisor's function in diagnosis and improvement of instruction. Observations and discussions with teachers and supervisors.
Five quarter hours credit.

Fund of Curr. Des.

- 542 **Curriculum of the ~~Elementary/Secondary School~~** **Winter**
A critical appraisal of the curriculum and an introduction into the methodology of curriculum development and change.
Three quarter hours credit.
Work. on Curr. & Supr.
- 543 **Seminar in ~~Techniques of Research in Supervision~~** **Autumn**
and Curriculum Improvement
Review of research in supervision and curriculum with critical consideration of techniques used.
Three quarter hours credit.
- 545 **Internship in Curriculum and Supervision** **On Demand**
An opportunity for qualified students to work individually or in small groups under the guidance of a college staff member in selected school situations. Includes direct experience and research.
Credit to be arranged.
- 551 **School Organization and Administration** **Autumn**
A basic course in organization and administration. Develops a philosophy for school administration and understandings of governmental relations at all levels of control; administration and financing of education.
Four quarter hours credit.
- 552 **Duties of School Principals** **Winter**
A study of the basic duties of elementary and secondary school principals in school organization and administration as well as the supervision of instruction.
Four quarter hours credit.
- 553 **Problems in School Administration** **Winter**
A seminar requiring individual investigation of fundamental problems in administration culminating in a research paper. Problems will be based largely on past or anticipated experience of the students.
Four quarter hours credit.
- 554 **~~School Finance and~~ School Buildings** *Sch. Finance* **Spring**
Problems dealing with educational finance and with planning school building programs. Field and laboratory work whenever possible.
Four quarter hours credit.
- 555 **Internship in Administration** **On Demand**
An opportunity for qualified student to work individually or in small groups under the guidance of a college staff member in selected school situations. Includes direct experience and research.
Credit to be arranged.
- 556 **School Organization and Administration for Teachers** **On Demand**
Emphasis on the development of insight into the role of the teacher in organizational and administrative problems of the school.
Three quarter hours credit.

561 The Teacher's Role in Personnel Work Winter

A course in guidance showing how group procedures can be directed toward fulfilling the needs of high school students.
Three quarter hours credit.

562 Guidance and Counseling Techniques Spring

Principles of guidance and counseling with stress on interpretation of diagnostic material.
Prerequisite: 561 or equivalent.
Four quarter hours credit.

563 The Education of the Exceptional Child

A scientific study of children who differ from the usual. Includes the psychology, treatment, and care of mentally subnormal, gifted, and physically handicapped children. Children with school and personality difficulties are studied.
Three quarter hours credit.

564 Personality Maladjustments and Mental Hygiene

A study of personality maladjustments dealing with simple cases of neuroses and psychoneuroses. A large part of the course is devoted to applications of principles of mental hygiene and their relation to adjustment problems through education.
Four quarter hours credit.

572 Community-School Relationships Spring

The roles played by various community agencies in the education of youth; their difficulties in coordination, and the school's responsibility as a leader and interpreter. Explores home-school relationships.
Three quarter hours credit.

573 Public Relations On Demand

Consideration is given to the task of interpreting the school to the community through use of the newspapers, school reports, radio, and through the aid of professional and lay organizations. The proper relationship between the community, the board of education, the superintendent and his staff is emphasized.
Two quarter hours credit.

574 Parent Education Autumn

Analysis of different methods of conducting study groups and programs for parent meetings. Attention given to parent-child and family problems as well as to parent-school relationships.
Three quarter hours credit.

581 The Teaching of Reading in the Elementary School Autumn

A study of the developmental reading program in the elementary grades. Consideration is given to this program from the language arts point of view.
Four quarter hours credit.

- 583 **Social Learnings in the Elementary School** **On Demand**
Principles and procedures in development of social experiences. Child growth and development, democratic values and processes, actual life situations and common life problems are stressed.
Two quarter hours credit.
- 584 **The Teaching of Science in the Elementary School** **On Demand**
A consideration of techniques used in selecting and providing experiences in elementary school science; includes a study of equipment and materials suitable for elementary school students.
Two quarter hours credit.
- 586 **Related Arts in the Elementary School** **On Demand**
The function of the arts in the total elementary school program; an analysis of contemporary trends in the teaching of art, industrial arts, home economics, music, dance, and literature.
Three quarter hours credit.
- 587 **Problems in Audio-Visual Education** **On Demand**
Individual projects and research in selection and utilization of audio-visual materials and equipment; unit costs, evaluation procedures, and setting up and administering an audio-visual program.
Four quarter hours credit.
- 590 **Group Process in Education** **On Demand**
Democratic principles and patterns of group action analyzed and applied to teaching-learning situations on all levels. Studies of experimentation and research in group dynamics are examined with emphasis on understanding human relations and utilizing cooperative techniques in instructional programs.
Two quarter hours credit.
- 591 **Techniques of Educational Measurement—Applied Statistics** **On Demand**
Concepts of statistics and measurement as applied to practical school problems. Uses and misuses of measurement.
Three quarter hours credit.
- 592 **Philosophy of Education** **On Demand**
An evaluation of current philosophies in operation in the public schools.
Four quarter hours credit.
- 593 **Supervision of Student Teaching** **On Demand**
A study of problems facing supervising teachers and students as they participate in teaching activities.
Three quarter hours credit.

595 *Internship*

DEPARTMENT OF ENGLISH GRADUATE MAJOR IN ENGLISH

Students who elect a graduate major in English will be expected to do approximately two-thirds of their graduate work in courses prescribed by the English Department. The nature and scope of the courses prescribed will be determined by an examination of the individual student's undergraduate academic record and his general background. There are no specific prerequisites for any of the courses in this department. It is advisable, however, for the student to consult with each instructor before enrolling in his class.

Description of Courses

- 470 **The English Novel** **Autumn and Spring**
Study and discussion of many novels of the eighteenth and nineteenth centuries. Emphasis upon the novel as a type of literature which has developed from simple early forms to highly finished later forms.
Four quarter hours credit.
- 471 **English Prose of the Nineteen Century** **Winter**
A study of the main currents of nineteenth century thought as expressed in the writings of Carlyle, Mill, Ruskin, Macaulay, and others whose pronouncements exerted seminal influence.
Four quarter hours credit.
- 473 **Romantic Poetry** **Winter**
A study of Romantic themes and tendencies as they arose in the eighteenth century and came to flower in Coleridge, Wordsworth, Byron, Shelley, and Keats.
Four quarter hours credit.
- 474 **English Poetry of the Victorian Period** **Autumn**
A survey of English poetry from Tennyson to Hardy, with special emphasis upon Tennyson, Browning, and the Pre-Raphaelites.
Four quarter hours credit.
- 475 **Contemporary Poetry** **Winter**
A study of contemporary poetry both from the point of view of its intrinsic interest and of its position in modern literary developments. Representative British and American poets are stressed.
Four quarter hours credit.
- 476 **The Modern Novel** **Spring**
A study of modern fictional trends, with emphasis upon the development of various movements on the European continent and their impact upon the twentieth century English and American novel.
Four quarter hours credit.
- 480 **Materials of High School English** **Autumn and Spring**
A study of the methods, devices, techniques, and curricular materials useful to the English teacher in the secondary schools of Illinois.
Two quarter hours credit.

- 481 **Grammar for Teachers** **Autumn and Spring**
A study of the structure of current usage.
Two quarter hours credit.
- 482 **Problems in the Teaching of Reading** **Spring**
(Also listed as Education 482.)
A study of the reading problems of high school students.
Four quarter hours credit.
- 485 **English Drama to 1642** **Spring**
Miracle and mystery plays, moralities, interludes, imitations of Latin tragedy and comedy, and the plays of such writers as Lyly, Greene, Kyd, Marlowe, Jonson, and Beaumont and Fletcher.
Four quarter hours credit.
- 486 **Modern Drama** **Spring**
Trends in British, Continental, and American drama from Ibsen to the present day, as illustrated by representative plays.
Four quarter hours credit.
- 505 **History of Literary Criticism** **Spring**
Analytical, judicial, and interpretative functions of criticism considered in their relationship to creative achievement. Attention will be given to the exponents of the New Criticism.
Four quarter hours credit.
- 507 **Chaucer** **Autumn**
Detailed reading of Chaucer's principal works, with emphasis on his literary growth and skill in interpreting medieval English life. There will be intensive study of Chaucer's language.
Five quarter hours credit.
- 510 **Survey of Medieval Literature**
Reading, in translation, of such major works as *The Cid*, *The Song of Roland*, *The Nibelungenlied*, *The Volsungasaga*, *The Elder Edda*, *Consolation of Philosophy* and *The Divine Comedy*.
Four quarter hours credit.
- 512a **Studies in American Literature**
The Puritan period and "The Age of Reason," with extensive reading in such authors as Cotton Mather, Edwards, Winthrop, Franklin, and Freneau.
Four quarter hours credit.
- 512b **Studies in American Literature** **Autumn**
"The Romantic Movement," with reading in such leading nineteenth century figures as Emerson, Poe, Hawthorne, Lowell, Melville, and Whitman.
Four quarter hours credit.
- 512c **Studies in American Literature** **Winter**
Realism and Naturalism and their manifestations in the writings of Twain, Harte, James, Howells, Garland, Dreiser, Norris, and certain poets.
Four quarter hours credit.

- 560 **Elizabethan Non-Dramatic Literature** **Winter**
 The development of Renaissance culture in England as reflected in sonnet cycles, "courtesy books," criticism, fiction, history, essays, and translations. Emphasis on the non-dramatic works of the Humanists, Sidney, Spenser, Shakespeare, and Bacon.
 Four quarter hours credit.
- 561 **Milton and His Contemporaries** **Autumn**
 The Renaissance-Puritan conflict in Milton as seen in the longer poems and plays. Three revolutions—scientific-humanist, political, and theological—are studied in works of writers from 1630 to 1670.
 Four quarter hours credit.
- 563 **Pope and His Contemporaries** **Spring**
 Pope's career as a satirist, his critical opinions, religious and philosophical ideas, and relations with contemporary literary and political figures.
 Four quarter hours credit.
- 565 **Johnson and His Contemporaries**
 Johnson as a representative of the persistence of classical dogma and tradition, and as psychologist, moralist, and critic. Attention will be given to recently published Boswell and Walpole material.
 Four quarter hours credit.
- 571 **Studies in Victorian Prose** **Spring**
 Examination of the works of two or more important writers of non-fictional prose of the period.
 Four quarter hours credit.
- 573a **Studies in Coleridge and Wordsworth**
 The philosophy of composition and practice of these poets, together with revelatory memoirs of the period. *The Prelude* will be studied as a prophetic introduction to psychoanalysis.
 Four quarter hours credit.
- 573b **Studies in Shelley and Keats** **Autumn**
 Emphasis on Shelley as a proponent of political and social reform, with attention to critical opinion regarding him. Study will be made of classical, as well as romantic, elements in Keats.
 Four quarter hours credit.
- 574 **Studies in Victorian Poetry**
 The works of two or more important poets of the period and their relation to the literary, intellectual, and social movements of their age.
 Four quarter hours credit.
- 576 **Trends in the Twentieth Century Novel** **Winter**
 Considerations of kaleidoscopic form; Biblical narrative as basis for fiction; patterns of decadence; war's impact on civilization; negations of Utopia; and disruptions of traditional form.
 Five quarter hours credit.

580 Studies in Shakespeare

Autumn

Shakespeare's development as a dramatist, studied through representative plays. Consideration of his debt to contemporaries, his use of stage conventions, his theatre. Attention given to representative source studies, theories of tragedy, Shakespearean criticism.

Four quarter hours credit.

582a Problems in the Teaching of English in the Junior High School

Spring

Study of recent research in the teaching of literature and communication skills in the later elementary and junior high school years.

Three quarter hours credit.

582b Problems in the Teaching of English in the Senior High School

Winter

Methods of teaching language and literature in the senior high school. Emphasis is placed on objectives, materials and current trends in language education.

Three quarter hours credit.

584 Restoration Drama

Winter

A study of the heroic drama, Restoration comedy and farce, classical tragedy, the ballad opera, and the beginnings of middle class theatre.

Four quarter hours credit.

585 English Drama of the Nineteenth Century

Spread of lower-class drama (especially melodrama and farce); the literary theatre of Byron, Shelley, Coleridge, Browning and Tennyson; the revival of Shakespeare, his great interpreters and his great romantic critics.

Four quarter hours credit.

586 Trends in Twentieth Century Drama

Spring

An analysis of representative plays of dramatists from Shaw to T. S. Eliot, showing trends in naturalism, realism, romanticism, symbolism and expressionism. Special attention given to poetic drama.

Four quarter hours credit.

**DEPARTMENT OF MATHEMATICS
GRADUATE MAJOR IN MATHEMATICS**

Students who elect a graduate major in mathematics must satisfy the following course requirements in mathematics:

- (a) 450 and 451 or equivalents if these courses were not included in the undergraduate program.
- (b) At least two quarter hours credit in 550.
- (c) At least six courses to be selected from courses 405, 410, 420, 430, 505, 510, 515, 520, 530, and 540. At least three courses must be on the 500 level.

Description of Courses

- 405 Theory of Equations** **Autumn**
Solution of the cubic and quartic equations by radicals. Descartes' rule of signs. Sturm's theorem. solution of numerical equations. determinants, systems of linear equations, and matrices.
Prerequisite: 320 or equivalent.
Four quarter hours credit.
- 410 Mathematics of Statistics I** **Winter**
Classification and presentation of data; probability; the normal probability curve; errors and computation; moments; curve fitting, including the graduation of the normal curve; theory of correlation.
Offered on demand.
Prerequisite: 321 or equivalent.
Four quarter hours credit.
- 415 Advanced Synthetic Geometry** **Autumn**
Foundations of the geometric structure; methods of proof and of discovering proof; geometry of the triangle, harmonic section, poles and polar, inversion, cross-ratio, and related topics.
Prerequisite: 130 or equivalent.
Four quarter hours credit.
- 420 Differential Equations I** **Winter**
Methods of solution of ordinary differential equations of the first order and higher orders. Practical applications of differential equations in solving problems in geometry and in science.
Prerequisite: 322 or equivalent.
Four quarter hours credit.
- 430 Advanced Calculus I** **Winter**
Fundamental theorems on limits, differentiation, and Riemann integration; line integrals, surface integrals, Green's theorems, Stokes' theorem, Fourier's series, and vectors.
Offered on demand.
Prerequisite: 322 or equivalent.
Four quarter hours credit.
- 440 History of Mathematics** **Spring**
Development of each of the several branches of mathematics through the first steps of the calculus; outstanding contributors in the field of mathematics.
Offered every other year. (Not offered in 1952-1953.)
Four quarter hours credit.
- 450 Teaching Practices in High School Mathematics I** **Autumn**
Mathematics of the seventh, eighth, and ninth years. Social and mathematical aims, selection and organization of content, methods of presenting topics in the classroom, classroom procedure, supplementary instructional equipment, and means of evaluating instruction.
Prerequisite: 320 or equivalent.
Four quarter hours credit.

- 451 **Teaching Practices in High School Mathematics II** **Winter**
 Mathematics of the tenth, eleventh, and twelfth years. Topics similar to those listed in 450.
 Prerequisite: 320 or equivalent.
 Four quarter hours credit.
- 502 **The Teaching of Arithmetic in the Elementary School** **Spring**
 (Also listed as Education 502)
 Consideration of interrelationships in arithmetic, research in the area, and materials of teaching.
 Offered on Demand.
 Prerequisite: 300 or equivalent or teaching experience.
 Two quarter hours credit.
- 505 **Modern Algebra** **Spring**
 Introduction to algebraic theories including polynomials, rectangular matrices, elementary transformations, equivalence of matrices and of forms, linear spaces, polynomials with matrix coefficients and fundamental concepts.
 Prerequisite: 405 or equivalent.
 Three quarter hours credit.
- 510 **Mathematics of Statistics II** **Spring**
 Continuation of 410. Probability and statistical theory, frequency curves, partial correlation, multiple correlation, theory of sampling, *Chi-square* distribution, and interpolation and graduation.
 Offered on demand.
 Prerequisite: 410 or equivalent.
 Three quarter hours credit.
- 515 **Advanced Analytic Geometry** **Autumn**
 Coordinates and cosines, planes and lines, determinants and matrices, surfaces and curves, quadric surfaces, and transformations.
 Prerequisite: 222 or equivalent.
 Four quarter hours credit.
- 520 **Differential Equations II** **Spring**
 Continuation of 420. Further consideration given to ordinary differential equations of the first order and higher orders. Partial differential equations of the first and second orders.
 Offered on demand.
 Prerequisite: 420 or equivalent.
 Three quarter hours credit.
- 530 **Advanced Calculus II** **Spring**
 Continuation of 430. Partial differentiation, vectors, power series, differential geometry, Stieltjes Integral, and Laplace transform.
 Offered on demand.
 Prerequisite: 430 or equivalent.
 Three quarter hours credit.

- 540 **Topics in Higher Mathematics for Teachers** **Autumn**
 Selected topics from algebra, geometry, and analysis including the function concept, theory of members, non-euclidean geometry, topology, postulational approach to mathematics, and constructions with ruler and compasses.
 Four quarter hours credit.
- *550 **Seminar in the Teaching of High School Mathematics** **Winter**
 Individual and group problems related to the teaching of high school mathematics.
 Prerequisite: 450 or 451 or equivalent.
 Two to five quarter hours credit.

DEPARTMENT OF THE PHYSICAL SCIENCES

GRADUATE MAJOR IN THE PHYSICAL SCIENCES

Students who elect a graduate major in the physical sciences must satisfy the following course requirements in the physical sciences:

The minimum requirement for a major in a single field is sixteen quarter hours credit.

Description of Courses

CHEMISTRY

- 400 **Inorganic Preparations** **Autumn**
 Application of fundamental principles in inorganic chemistry. Preparation and purification of selected inorganic compounds.
 Prerequisite: 301.
 Three quarter hours credit.
- 402 **Quantitative Analysis** **Spring**
 Selected analyses of inorganic compounds.
 Prerequisite: 301.
 Three quarter hours credit.
- 410 **Organic Preparations** **Winter**
 Synthesis of representative organic compounds by application of fundamental organic reactions.
 Offered every other year.
 Prerequisite: 312 or equivalent.
 Two to four quarter hours credit.
- 415 **Biological Chemistry** **Spring**
 Chemistry of biological processes. (Not offered in 1952-53).
 Prerequisite: 311 or 315.
 Four quarter hours credit.

* Course may be repeated for additional credit.

- 420 Qualitative Organic Analysis** **Spring**
 Organic group reactions. Identification of organic compounds and mixtures by characteristic reactions.
 Offered every other year.
 Prerequisite: 312 or equivalent.
 Four quarter hours credit.
- 430-431-432 Physical Chemistry** **Autumn, Winter, Spring**
 Behavior of gases, liquids, solids, and solutions. Phase rule chemical reactions, colligative properties, electrometry, and thermodynamics considered.
 Prerequisite: 262 and twenty-four hours Chemistry.
 Advisable prerequisite: Differential and integral calculus.
 Four quarter hours credit for each unit.
- 500 Advanced Inorganic Chemistry** **On Demand**
 Thorough treatment of fundamentals of inorganic chemistry.
 Prerequisite: 301.
 Three quarter hours credit.
- 504 Topics in General and Physical Chemistry** **On Demand**
 Lectures, discussions, and reports on topics of special interest in general and physical chemistry.
 Prerequisite: 400, 432, or equivalent.
 Two quarter hours credit.
- 505 Topics in Analytical Chemistry** **On Demand**
 Lectures, discussions and reports on topics of special interest in analytical chemistry.
 Prerequisite: 301.
 Two quarter hours credit.
- 506 Topics in Organic Chemistry** **On Demand**
 Lectures, discussions and reports on topics of special interest in organic chemistry.
 Prerequisite: 312.
 Two quarter hours credit.
- *507 Chemistry Seminar** **On Demand**
 Discussion of selected topics in chemistry under staff supervision.
 Prerequisite: A minor in chemistry or equivalent.
 One to two quarter hours credit.
- 510 Advanced Organic Chemistry** **On Demand**
 Survey of field of organic chemistry including limitations of generalized group reactions, mechanism of organic reactions, and electronic nature of organic compounds.
 Prerequisite: 312.
 Three quarter hours credit.

* Course may be repeated for additional credit.

***535 Research**

On Demand

Individual study of a problem in experimental work, teaching procedure, or professional training under supervision of appointed staff member.

Prerequisite: Permission of departmental head.

One to four quarter hours credit.

PHYSICS

449 Science Teaching Procedure in Elementary School **Spring**

(For teachers and supervisors.)

Procedure in elementary science teaching. Experiments and demonstrations suitable for elementary grades.

Newer science books for children reviewed.

Prerequisite: Permission of instructor.

Four quarter hours credit.

460-461-462 Advanced General Physics **On Demand**

Topics selected to furnish thorough background in preparation for teaching and advanced study.

Prerequisite: One year of college physics or equivalent.

Four quarter hours credit for each unit.

470 Atomic and Nuclear Physics I **Autumn**

Study of discoveries and measurements of the fundamental particles; Wave-particle dualism; Bohr Atom; basic postulates and results of relativity. Radioactivity and nuclear reactions.

Prerequisite: One year of College physics or equivalent.

Four quarter hours credit.

471 Atomic and Nuclear Physics II **On Demand**

Continuation of 470. Quantum numbers and energy states. Optical, X-ray, gamma-ray, and beta-ray spectra.

Prerequisite: 470.

475 Electronics I **On Demand**

D. C. and A. C. Circuit theory applied to simple circuits used in modern electronics equipment. Vacuum tubes and radio receivers included.

Prerequisite: 375 or permission of instructor.

Four quarter hours credit.

485 Acoustics **On Demand**

Fundamentals of wave motion and their application to sound. Reflection, diffraction, and absorption of sound as related to acoustic properties of rooms.

Prerequisite: One year of college physics or equivalent.

Four quarter hours credit.

490 History of Science **On Demand**

Development of physical science from the beginning of recorded history to the present time. Significant past stages and present trends emphasized.

Three quarter hours credit.

* Course may be repeated for additional credit.

- 492 Biography of Famous Scientists** **On Demand**
 Work and personal characteristics of famous scientists. Oral and written reports required.
 Two quarter hours credit.
- 499 Teaching of Physical Sciences** **Spring**
 Classroom and laboratory problems confronting the high school teacher. Requisitions for supplies and equipment, texts, reference materials included.
 Prerequisite: Physical science major or permission of instructor.
 Two quarter hours credit.
- *560 Special Problems in Physics** **On Demand**
 Special problems in physics under supervision of staff. Problems may be technical in nature or concerned with teaching procedure.
 Prerequisite: One year of college physics or equivalent.
 One to four quarter hours credit.
- 564-565-566 Physical Science for Elementary Teachers** **On Demand**
 (For teachers and supervisors.)
 Principles and application of physical science illustrated by simple apparatus constructed by members of class. Science texts and reference materials considered. (Course 564 satisfies requirements for Education 584.)
 Prerequisite: Permission of instructor.
 Two to four quarter hours credit for each unit.
- *567 Physics Seminar** **On Demand**
 Problems in physics discussed under guidance of staff.
 Prerequisite: One year of college physics or equivalent.
 One to two quarter hours credit.
- 575 Electronics II** **On Demand**
 Continuation of 475. Oscillators, amplifiers, transmitters and industrial controls. Network theory considered.
 Prerequisite: 475 or permission of instructor.
 Four quarter hours credit.
- 580 Thermodynamics** **On Demand**
 Laws of thermodynamics and their application to various thermal systems.
 Prerequisite: One year of college physics, differential and integral calculus.
 Three quarter hours credit.
- 595 Orientation of College Science to Public School Teaching** **On Demand**
 Correlation of content of physical science courses to classroom teaching in primary and secondary schools.
 Prerequisite: Major or minor in Physical Sciences.
 Two quarter hours credit.

* Course may be repeated for additional credit.

DEPARTMENT OF THE SOCIAL SCIENCES

GRADUATE MAJOR IN THE SOCIAL SCIENCES

Students who elect a graduate major in the social sciences must satisfy the following course requirements in the social sciences:

Every major in the social sciences will have completed by the end of the fifth year a minimum of twelve quarter hours credit in each of the fields comprising the general area: namely, history, economics, sociology, and political science. At least four quarter hours credit in each field must be at the graduate level.

Description of Courses

ECONOMICS

- 460 **Business Cycles** **On Demand**
Prosperity-recession-depression-recovery patterns of modern economic society presented against a background of earlier attempts to account for the cyclical character of the economy.
Prerequisite: 360 or equivalent.
Two quarter hours credit.
- 467 **The Cooperative Movement** **On Demand**
Theory of cooperative enterprise, the practice of cooperative techniques in agriculture, industry, and distribution here and abroad, and competition between cooperative and non-cooperative business.
Prerequisite: 260.
Two quarter hours credit.
- 468 **World Economic Problems** **On Demand**
Technology and cultural lag, nationalism, population trends, international trade, basic raw materials, cartels, unemployment, and contemporary world organizations to deal with these problems are discussed.
Prerequisite: 360 or equivalent.
Three quarter hours credit.
- 560 **Advanced Economic Theory** **On Demand**
Readings designed to give an intensive treatment of the major works in economic theory from Adam Smith to the present. The History of Ideas is a desirable forerunner for this course.
Prerequisite: 260 or equivalent.
Four periods a week.
- 563 **Modern Economic Systems** **On Demand**
Capitalism, socialism, communism, fascism, and cooperatives are compared in detail regarding economic institutions, decisions, production, agriculture, the mechanism of exchange, investment, distribution of income, public finance, labor, and international trade.
Prerequisite: 360 or equivalent.
Four quarter hours credit.

- 564 **Economic Well-Being and Education** **On Demand**
Public education as an agency of social control and its effect on long-run economic welfare. Specific aspects of consumption, savings, distribution and production influenced by education are dealt with.
Prerequisite: 364 or permission of the instructor.
Two or three quarter hours credit.

add 566

HISTORY

- 420 **American History, The Middle Period—1815-1850** **Winter**
An intensive study of a shorter period of National history. Attention is centered on the greatest possible understanding of a few major developments.
Prerequisite: 220 and 221.
Four quarter hours credit.
- 421 **Twentieth Century United States** **Autumn**
The United States during its transition from a predominantly agricultural character to industrial and financial preeminence and an investigation of the nation's rise to leadership in world affairs.
Prerequisite: 220 and 221.
Four quarter hours credit.
- 422 **Economic History of the United States** **On Demand**
The evolution and expansion of American economic institutions and processes from colonial times to 20th century prominence. Stress will be placed upon environmental factors, strategic location of raw materials, the impact of functional technology and the transition to finance capitalism.
Four quarter hours credit.
- 423 **Intellectual and Social History of Twentieth Century United States** **On Demand**
The cultural aspects of American life since the 90's, with extensive use of phonographic documentaries as illustrative materials. The changing tastes in literature, drama, and music as well as attitudes, interests, and patterns of thinking during this three-generation span.
Four quarter hours credit.
- 426 **The Republican Period of Latin America** **On Demand**
The Latin American republics from the time of the revolutions against European colonial powers to the present. Political, economic, and social institutions will be carefully examined, with special stress upon the phenomenon of the Latin-American *caudillo* and dictator.
Prerequisite: 325 or equivalent.
Four quarter hours credit.
- 430 **Twentieth-Century Europe** **Spring**
Intensive study of European and World affairs in this century. The two World Wars, their causes, efforts at keeping the peace, attempts at international controls, issues, events, and trends in history since 1945.
Prerequisite: 332 or equivalent.
Four quarter hours credit.

- 432 History of Ideas** **Every Quarter**
 Designed to give some first-hand knowledge of what men throughout the ages have thought about the perennial problems which beset humanity. Lectures, readings, discussions.
 Prerequisite: Senior standing.
 Two quarter hours credit.
- 434 English History to 1603** **On Demand**
 Background for the study of Medieval and Renaissance English Literature, and for the historical understanding of the origins and development of the English nation and people through the Tudor period.
 Four quarter hours credit.
- 436 British History, 1815 to Present** **Winter**
 Background for Romantic, Victorian, and Contemporary English Literature, and for the historical understanding of British institutions and Peoples, including the Commonwealth of Nations and the development of socialistic institutions.
 Prerequisites: 434 and 335 are desirable, but not required.
 Four quarter hours credit.
- 438 American Social Reform Movements Since 1865** **On Demand**
 A study of a number of the important reform movements. Includes those of the farmer, workers and intellectuals along with their declarations, platforms, social philosophies, techniques of action and principal achievements in national and local affairs.
 Prerequisite: 221.
 Two quarter hours credit.
- 520 Historiography** **On Demand**
 Great historians and their literature, what history has meant to historians of all ages, methods they have used, theories or philosophies they have held, history's role in understanding our world.
 Two quarter hours credit.
- 521 Historical Method Seminar** **On Demand**
 Methods of defining an historical problem, collecting and organizing materials, techniques of writing. Recommended for beginning graduate students in preparation for further work in the department.
 One to three quarter hours credit.
- 522 Development of American Culture in the Eighteenth Century** **On Demand**
 A study of the Eighteenth century background of some of the more important aspects of present day American culture. The particular topics for intensive study to be selected by the student after consultation with the instructor.
 Two quarter hours credit.

- 523 Technology in American Culture** **On Demand**
 Development of technology in America and its resulting influence upon our culture. Special emphasis on the influence of the machine on our agriculture, industry, transportation, and communications.
 Prerequisite: 280 or equivalent.
 Two quarter hours credit.
- 524 Development of Urban Society in America** **On Demand**
 The growth of urbanism in our society and the many changes brought about as a result of this development. Consists of both historical and sociological treatment.
 Prerequisite: 280 or equivalent.
 Two quarter hours credit.
- 530 Medieval Influences on Modern Ideas and Institutions** **On Demand**
 Medieval fusion of Classical, Teutonic, Christian, Islamic, Celtic cultures. Education, philosophy, science, religion, government, law, art, as they reflect the fusion. Influence of Medieval ideas and institutions on modern culture.
 Two quarter hours credit.
- 531 Renaissance Origins of the "Modern" in History** **On Demand**
 Renaissance of the 15th and 16th centuries in Italy and elsewhere. Literary and artistic reawakening. Economic, political, scientific, intellectual, and social forces which have determined the character of "modern" history.
 Two quarter hours credit.
- 532 Religious Disunity and Intolerance in Western Civilization** **On Demand**
 Protestant Reformation, Catholic Reformation, Wars of Religion, concept and practice of "established church," origins of idea of separation of church and state, and beginnings of modern religious toleration.
 Two quarter hours credit.
- 533 Eighteenth Century Origins of Contemporary Thought and Institutions** **On Demand**
 "Old Regime," Intellectual Revolution or "Age of Enlightenment," French Revolution and Napoleonic Era, studied as seedbed of contemporary thought and institutions, including "reactionary," liberal, and radical trends of past century.
 Two quarter hours credit.
- 534 Great Revolutionary Movements of Modern History** **On Demand**
 English Revolutions of 17th century, French and American Revolutions of 18th century, Russian and Chinese Revolutions of 20th century, analyzed and compared as an exercise in historical synthesis and interpretation.
 Four quarter hours credit.

- 536 **Reading Course in History** **On Demand**
Students needing one or two hours of graduate credit to complete a program may elect this course for individual reading on particular historical subjects with any member of the department.
One to three quarter hours credit.

POLITICAL SCIENCE

- 440 **American Parties and Pressure Groups** **On Demand**
A descriptive survey of the policies, organization and functioning of American parties and the leading pressure groups. Included are general electoral behavior and sectional and group patterns in politics.
Recommended: 240 or equivalent.
Three or four quarter hours credit.
- 445 **American Constitutional Development** **Autumn**
This course is a study of the growth of the Federal Constitution by judicial interpretation. Leading cases of the Supreme Court are analyzed and discussed.
Prerequisite: 220, 221, 240.
Four quarter hours credit.
- 446 **The Far East** **On Demand**
The impact of the Western nations on Eastern Asia since the opening of the Orient. Development of political and social institutions in China, Japan, and the Philippines.
Recommended: A previous college course in European or World History.
Three quarter hours credit.
- 448 **The United Nations** **On Demand**
The origins, structure and functioning of the United Nations and its specialized agencies. Included is a brief description of international organizations which existed before 1945.
Recommended: A previous college course in European or World History.
Three quarter hours credit.
- 449 **International Relations** **On Demand**
Revolutions, war and peace, disarmament, choice of foreign policy, nationalism, balance of power, foreign policies of major nations, the United Nations, world government, trouble spots in contemporary world.
Three quarter hours credit.
- 495 **Seminar in Current Problems of National Security** **Summer Session Only**
Issues and policies in government, politics, and economics in their historical and sociological perspectives for elementary and secondary teachers. Specific units for teaching may be developed by individuals or groups.
Prerequisite: Senior or graduate standing. Auditors by permission of staff.
Six quarter hours—10 periods per week (may be taken for three quarter hours for either the first or second four-week period.)

540 Public Administration **On Demand**

The administration of governmental policies by state and nation. Included are federal departmentalization, the independent regulatory commissions, personnel policies, some administrative law, and the policy contributions of administrators.

Prerequisite: 240 or equivalent.

Two quarter hours credit.

546 Democratic Foreign Governments **On Demand**

The development and functioning of government and politics in Great Britain, France and the Dominions. Some attention will be given to Scandinavian countries or Czechoslovakia if student interest so warrants.

Prerequisite: 240 or equivalent.

Recommended: A college course in European or World History.

Two quarter hours credit.

547 Non-Democratic Foreign Governments **On Demand**

The development and functioning of government and politics in the USSR, Germany, Italy, and Spain.

Prerequisite: 240 or equivalent.

Recommended: A college course in European or World History.

Two quarter hours credit.

549a Seminar in Political Science **On Demand**

U. S. Politics and Government.

Prerequisite: Consent of instructor.

One to three quarter hours credit.

549b Seminar in Political Science **On Demand**

International affairs and/or Foreign Government.

Prerequisite: Consent of instructor.

One to three quarter hours credit.

SOCIOLOGY

480 The Family **On Demand**

A study of the family as a functional institution. Aims at those aspects of the family having primarily to do with the welfare of children. The family is presented both as a normal and potentially disorganized institution.

Four quarter hours credit.

481 Marriage and Family Counseling **On Demand**

Provides the student with the available information for his own needs as an individual and supplies him the necessary aids for counseling in the secondary schools.

Two quarter hours credit.

- 482 Criminology** **On Demand**
 The underlying factors which tend toward a criminal career and the attempts at reform of the convicted criminal. It emphasizes the part taken by the various social institutions in the attack on the problem.
 Prerequisite: 280.
 Four quarter hours credit.
- 483 Social Disorganization** **On Demand**
 A detailed study of some of the major social problems arising out of a failure in social integration—divorce, crime, prostitution, racial and religious tensions, and the like.
 Prerequisite: 280 or equivalent.
 Three quarter hours credit.
- 490 Materials and Problems of High School**
Instruction in the Social Sciences **Every Quarter**
 Acquaintanceship afforded through individual and group projects with supplies, equipment, texts, references, fiction, magazines, newspapers, etc. available for use in high school social science classes.
 Prerequisite: Senior standing.
 Two quarter hours credit.
- 491 Materials and Problems of Elementary School**
Instruction in the Social Sciences **Winter**
 Acquaintanceship afforded through individual and group work with supplies, equipment, texts, and other aids available for use in the elementary social science classes correlates social studies with other classes.
 Prerequisite: Senior standing.
 Four quarter hours credit.
- 580 Systematic Sociology** **On Demand**
 An examination of the historic patterns of sociological thought as developed by Conte, Giddings, Coolidge, Sumner, Thomas and others, and an attempt to synthesize the current patterns of sociological thought into a coherent system.
 Prerequisite: 280 or equivalent.
 Two quarter hours credit.
- 581 Social Dynamics** **On Demand**
 A study of some of the constants of social change, the variability of rates of change, the factors involved from a sociological point of view in the various forms of revolution typified by the industrial revolution, the Protestant Reformation, and various political movements.
 Prerequisite: 280 or equivalent.
 Two quarter hours credit.
- 582 Social Attitudes** **On Demand**
 A study of the nature of social attitudes, their importance in a modern society, their growth and development, their measurement and their control. An advanced study of attitude-forming techniques in a special area will be required of the student.
 Prerequisite: 280 or equivalent.
 Two quarter hours credit.

583 Community Analysis

On Demand

Techniques of community study from the special viewpoint of the teacher or school administration will be developed. The student will be required to use these techniques in the study of a specific aspect of a specific community as it relates to a specific school situation.

Three quarter hours credit.

584 Sociology Seminar

On Demand

This course is designed to meet individual student needs through reading, discussion, or the working out of specific projects in minor areas of specialization not previously covered by the experience of the student.

Prerequisite: Consent of instructor.

One to three quarter hours credit.

**DEPARTMENT OF SPEECH
GRADUATE MAJOR IN SPEECH**

Students who elect a graduate major in speech must satisfy the following course requirements:

(1) Approximately two-thirds, or twenty-nine hours, of the graduate study program must be in courses offered by the Department of Speech.

(2) A student may concentrate his graduate study in the area of Drama, Interpretation, and Radio or in the area of Public Address, but the student's advisory committee will reserve the right to require courses in both areas if such are needed by the student.

(3) If the student's area of specialization is Drama, Interpretation, and Radio, the seminar in problems in that area, Course 540, will be required; if the student's area of specialization is Public Address, the seminar in problems in this area, Course 541, will be required.

A student who elects a graduate major in the area of English-Social Sciences-Speech or in the area of English-Speech should consult his advisory committee relative to the planning of his program of study. In order to adapt to the individual student's needs, a high degree of flexibility is retained in the general policy relative to area majors. In planning the program, consideration is given to such factors as the student's specialization in his undergraduate study, his teaching program or plans, and the possibilities for enriching teaching resources.

Whether one elects an area major or a departmental major, the first step in planning a program of graduate study is consultation with the chairman of the advisory committee.

Description of Courses

DRAMA, ORAL INTERPRETATION OF LITERATURE,
AND RADIO

410 **Advanced Play Production** **Autumn**

Section I—Contemporary methods of play production, dramatic theory and play analysis, little theater organization, specific problems of producing in educational and community theaters, and the teaching potentialities of extracurricular dramatic activities at the secondary level. **Prerequisite:** 225, 230, and 310.

Section II—An adaptation of Section I with emphasis on creative drama in the elementary school.

Prerequisite: Consent of instructor.

Four quarter hours credit for either section.

430 **Advanced Oral Interpretation of Literature** **Autumn**

A continuation of Course 230 designed to develop increased skill in the technique of reading, in creative imagination, and in the expression of emotional power.

Prerequisite: 100. 225, 230, and 310.

Four quarter hours credit.

450 **Radio Speaking** **Spring**

Section I—Composition and delivery of various types of radio programs and continuity.

Prerequisite: 100, 201, 225, 230, 200 or 345, and 310 or 311.

Section II—Composition and delivery of various types of radio programs and platform addresses which school administrators and teachers are called upon to present.

Prerequisite: Consent of instructor.

Four quarter hours credit for either section.

510 **History of the Theater**

History of the drama in performance as a continuum directly related to the development of western civilization, together with the implications of the development of the educational and community theaters.

Prerequisite: 410 (may be taken concurrently).

Four quarter hours credit.

511 Acting and Directing

Consideration of the theater as a cultural and recreational outlet in the community and of the problems involved in the production of classics of dramatic literature, with emphasis on projects in characterization, voice, and movement.

Prerequisite: 410 and 510.

Three quarter hours credit.

515 Advanced Technical Practice

The theory and practice of stage design, stage lighting, scenery and properties construction, sound effects, with special reference to modern theater design and stage equipment as applicable to the needs of educational and community theaters.

Prerequisite: 315 and 410.

Three quarter hours credit.

530 Lecture-Recital

Intensive work in the preparation and presentation of lecture-recitals.

Prerequisite: 430.

Three quarter hours credit.

PUBLIC ADDRESS

400 Introduction to Rhetorical Criticism

Basic concepts, terminology, and methods of classical and modern criticism, with emphasis on the evolution of public speaking from the era of the ancient Greeks to the present age.

Prerequisite: 100, 201, 200 or 300, and 345.

Four quarter hours credit.

500 Ancient and Medieval Rhetoric and Public Address

The contributions of Plato, Aristotle, Cicero, Quintilian, Augustine, and others to rhetorical theory and analysis of the speeches of some of the principal ancient and medieval orators.

Prerequisite: 400 (may be taken concurrently).

Three quarter hours credit.

501 Critical Studies in Oratorical Theory

The contributions of Bacon, Wilson, Campbell, Blair, Whately, John Quincy Adams, and others, to rhetorical theory, with its adaptation to modern conditions. Together, this course and Speech 500 examine the theory of public speaking from the earliest times to the present.

Prerequisite: 400 (may be taken concurrently).

Three quarter hours credit.

502 History and Criticism of British Public Address

The application of the principles of rhetorical criticism in the study of the speeches of some of the principal eighteenth and nineteenth century British speakers.

Prerequisite: 400 (may be taken concurrently).

Three quarter hours credit.

503 History and Criticism of American Public Address I

The application of the principles of rhetorical criticism in the study of the speeches of some of the principal American speakers in the period from colonial times to the close of the Civil War.

Prerequisite: 400 (may be taken concurrently).

504 History and Criticism of American Public Address II

The application of the principles of rhetorical criticism in the study of the speeches of some of the principal American speakers in the period from the close of the Civil War to the present.

Prerequisite: 400 (may be taken concurrently).

Three quarter hours credit.

505 The High School Forensic Program

The organization, direction, and evaluation of intra-school, community, and inter-school activities in debate, discussion, extempore speaking, and oratory.

Prerequisite: 400 (may be taken concurrently).

Three quarter hours credit.

SPEECH PEDAGOGY

440 The Teaching of Speech Winter

The problems confronting the teacher of speech, including the organization, content, and methods of teaching the foundational course in speech and other courses in a balanced speech curriculum.

Prerequisite: 100, 200 or 300, 201, 225, 230, 310 or 311, and 345 or 421.

Four quarter hours credit.

540 Seminar in Problems in Radio, Interpretative Reading and Dramatics

An exploration of the problems and the findings of research in this area of speech education, and, for the student with a special interest in this area, guidance in the selecting and conducting of his major graduate investigation.

Prerequisite: 440, 450, 510, and 530.

Three quarter hours credit.

541 Seminar in Problems in the Teaching of Public Speaking, Discussion and Debate

An exploration of the problems and the findings of research in this area of speech education, and, for the student with a special interest in this area, guidance in the selecting and conducting of his major graduate investigation.

Prerequisite: 440, 440, and one course in public address on the 500 level. This last course may be taken concurrently with 541.

Three quarter hours credit.

INDEX

	Page
Administrative Council	6
Administrative Staff	6
Admission Requirements	9
Advisory Committees	15
Application for Admission	10
Area Majors	21
Assistantships and Awards	19
Auditors	10
Biological Sciences	21
Buildings and Campus	16
Business Education	25
Cafeteria	12
Calendar	4
Candidacy for Degree	13
Completion of Graduate Work	15
Credit Requirement and Grading System	13
Credits Transferable	14
Deficiencies	13
Education	28
English	37
Examinations	15
Expenses	10
Extension Courses	14
Extracurricular Activities	20
Faculty	6
Fees	10
General Information	16
Graduate Council	6
Health Service	18
Living Accommodations	12
Major, Selection of	21
Master's Degree, Requirements for	13
Mathematics	40
Physical Sciences	43
Placement Bureau	19
Qualifying Paper	15
Registration	10
Residence Requirement	14
Social Sciences	47
Speech	54
Student Teaching	19
Veterans' Benefits	11
Veterans' Housing Project	18

