Graduate Academic Catalog (1967-1968)

Municipal University of Omaha

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UNIVERSITY OF OMAHA

OFFICIAL CALENDAR

SUMMER 1967

June 1
Last day for application for admission to Graduate College.

June 9-10
Registration.

June 12-14
First revision.

June 13 - August 3
Evening Session.

June 23
Theses due in Graduate Office.

July 4
Holiday.

July 5-6
Master's Comprehensive Examination.

July 17 - August 18
Second Session.

July 14
Last day for filing applications for degrees to be conferred August 31, 1967.

FIRST SEMESTER

1967-68

September 1
Last day for submitting applications for admittance to first semester.

September 11-15
Registration.

September 18
Official beginning of first semester at 7:30 a.m. Day and evening classes begin.

September 18
Late registration begins.

September 22
Last day for registering for a day class, or adding a day class to a schedule, up to 4 p.m. (or changing a day class from “audit” to “credit” or “credit” to “audit”).

September 23
9 a.m. to 12 noon. Last day for registering for an evening class, or adding an evening class to a schedule or changing an evening class from “audit” to “credit” or “credit” to “audit”).

October 8
Founder's Day.

November 10
Last day a class may be dropped in order to receive a "W" or an "X.

November 10
Theses due in Graduate Office.

November 22
Thanksgiving recess begins at 9:30 p.m.

November 27
Classes resume at 7:30 a.m.

December 11
Last day for filing applications for degrees to be conferred in January 1968.

December 15
Christmas Vacation begins at noon.

December 16
Christmas Vacation begins at noon.

January 2, 1968
Classes resume at 7:30 a.m.

January 13
Master's Comprehensive Examination.
UNIVERSITY OF OMAHA

January 17 - 24
Final Examinations.

January 26
All grades due in Registrar's Office by 3:30 p.m.

January 27
Mid-Year Commencement 10 a.m. (Saturday).

SECOND SEMESTER
1967-68

Jan. 29 - Feb. 2
Registration.

February 5
Official beginning of second semester at 7:30 a.m.
Day and evening classes begin.

February 5
Late registration begins.

February 9
Last day for registering for a day class or adding a day class to a schedule, up to 4 p.m., for changing a day class from "audit" to "credit" or "credit" to "audit".

February 10
9 a.m. to 12 noon. Last day for registering for an evening class, or adding an evening class to a schedule for changing an evening class from "audit" to "credit" or "credit" to "audit".

March 22
Theses due in Graduate Office.

March 29
Last day a class may be dropped in order to receive a "W" or an "X."

April 10
 Easter Convocation at 10 a.m.

April 10
Spring Vacation begins at 9:40 p.m.

April 16
Classes resume 7:30 a.m.

April 16
Last day for filing applications for degrees to be conferred in June 1968.

April 27
Master's Comprehensive Examination.

May 10
Memorial Day — student holiday

May 22-28
Final Examinations.

May 30
Memorial Day Holiday (University closed).

June 1
Last day for submitting applications for admittance to first summer session or evening summer session.

May 31
Alumni Achievement Day.

June 1
All grades due in Registrar's Office by 12 noon.

June 3
Fifty-ninth Commencement (Monday).

SUMMER 1968

June 7 - 8
Registration.

June 10 - July 12
First session.

June 11 - Aug. 1
Evening session.

June 21
Theses due in Graduate Office.

July 2 - 3
Master's Comprehensive Examination

GRADUATE RECORD EXAMINATION

Registration Deadlines
June 8, 1967
September 28, 1967
November 9, 1967
December 20, 1967
January 24, 1968
March 27, 1968
June 13, 1968

Testing Dates
July 8, 1967
October 28, 1967
December 9, 1967
January 20, 1968
February 24, 1968
April 27, 1968
July 13, 1968

ADMISSION TEST FOR GRADUATE STUDY IN BUSINESS

See Dr. Gale Oleson for testing dates

Students applying for admission must have on file in the Graduate Office the results of the GRE or the GSB, including the scores on area study examinations. Testing at OU is under the supervision of Dr. Gale Oleson, Director, Academic Testing Bureau, Administration Building 213.
THE BOARD OF REGENTS
Robert M. Spire, President
SAMUEL M. GREENBERG, Vice President
Miss Margaret R. Fischer, Secretary
Dr. Herbert H. Davis Mr. Richard Nisley
Mr. Robert G. Fraser Dr. A. B. Pittman
Mr. C. F. Moulton Mr. D. J. Sibbensen
W. Ross King
Attorney, Board of Regents
John Latenser & Sons
Architects for the Board of Regents

ADMINISTRATIVE OFFICERS
Kirk E. Naylor, Ed.D. ........................................... President (Acting)
George R. Bachford, Ed.D. .................................... Vice President - Campus Development
Philip Wel Boll, Ph.D., LL.D. ................................. President Emeritus
Donald J. Plevaester, M.Ed. ................................. Dean of Student Personnel
James A. Schneen, Ed.D. ....................................... Director of Admissions
Virgil V. Sharp, B.A. .......................... Registrar
Harold D. Keepover, B.S. .......................... Controller

THE COLLEGES
Robert D. Harper, Ph.D.
Dean, The College of Liberal Arts and Sciences
Anson D. Mabson, M.S.C.E. .......................... (Acting) Dean, The College of Engineering and Technology
Frank H. Groves, Ph.D.
Dean, The College of Education
John W. Lucas, M.B.A.
Dean, The College of Business Administration
William T. Utilities, M.A.
Dean, The College of Continuing Studies
Elton S. Carter, Ph.D.
Dean, The Graduate College

GRADUATE FACULTY 1967-68

Robert A. Ackerman ........................................ Elementary Education
Ed.D., University of Nebraska, 1966; Associate Professor
Paul B. Ackerson ........................................ Secondary Education
Ed.D., Oklahoma State University, 1965; Associate Professor
Frederick W. Adrian ........................................ History
Ph.D., Ohio State University, 1942; Professor
Clifford Anderson ........................................ Philosophy
Ph.D., University of Wisconsin, 1943; Professor and Head of Department
Walter J. Beavis ........................................ Special Education
Ph.D., Columbia University, 1962; Professor and Head of Department; Director, Clinical Services
Paul L. Beuck ........................................ History
Ph.D., University of Nebraska, 1964; Professor
Robert W. Benecke ....................................... Accounting and Finance
B.A., University of Colorado, 1966; Associate Professor
Hollie B. Bethel ........................................ Elementary Education
Ed.D., University of Colorado, 1957; Professor and Head of Department
Robert P. Borman ........................................ Biology
Ph.D., Iowa State University, 1962; Associate Professor
Merle E. Brooks ........................................ Biology
Ph.D., University of Colorado, 1966; Professor
William M. Brown ....................................... Marketing
Ph.D., University of Pittsburgh, 1957; Professor
Charles M. Bull ........................................ Marketing
Ph.D., University of Nebraska, 1962; Professor
Kenneth Burkholder ..................................... Education
Ed.D., University of Nebraska, 1959, Professor
Karl H. D. Busch ........................................ Biology
Ph.D., Ohio State University, 1949; Professor and Head of Department
Elton S. Carter ........................................ Speech
Ph.D., Northwestern University, 1958; Professor and Dean, Graduate College; Chairman, Graduate Faculty
Perry P. Chang ........................................ Economics
Ph.D., University of Washington, 1968; Associate Professor
Donald C. Cusenbrey ..................................... Reading
Ed.D., University of Missouri, 1961; Associate Professor; Director, Reading Clinic
Harl Dalstrom ........................................ History
Ph.D., University of Nebraska, 1965; Assistant Professor
Lawrence A. Danter ..................................... Economics
Ph.D., University of Nebraska, 1964; Associate Professor
Walter W. Davis ........................................ History
Ph.D., University of Colorado, 1964; Assistant Professor
Joseph G. Dunn ........................................ Elementary Education
Ed.D., University of Missouri, 1955; Professor
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>University</th>
<th>Field</th>
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<tbody>
<tr>
<td>Lawrence E. Ehlers</td>
<td>M.S., Kansas State U.</td>
<td>Registered Professional Engineer</td>
<td>Engineering</td>
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<tr>
<td>James W. Gibson</td>
<td>M.E., Ohio State U.</td>
<td>Secondary Education</td>
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<tr>
<td>Richard E. Gibson</td>
<td>M.E., University of Ill.</td>
<td>Registered Professional Engineer</td>
<td>Engineering</td>
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<td>G. Wayne Glidden</td>
<td>E.D., University of Neb.</td>
<td>Secondary Education</td>
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<td>Frank H. Gorman</td>
<td>Ph.D., University of Mo.</td>
<td>Education</td>
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<tr>
<td>E. J. Guin</td>
<td>Ph.D., Louisiana State U.</td>
<td>History</td>
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<td>Robert D. Harper</td>
<td>Ph.D., University of Chi.</td>
<td>English</td>
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<td>George T. Harris</td>
<td>Ph.D., State University of Iowa</td>
<td>Finance</td>
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<td>Forrest R. Hazard</td>
<td>M.A., University of Neb.</td>
<td>Foreign Languages</td>
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<td>George C. Helling</td>
<td>Ph.D., University of Min.</td>
<td>Sociology</td>
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<td>Wayne M. Higley</td>
<td>Ph.D., University of Ill.</td>
<td>Accounting</td>
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<td>Jack A. Hilt</td>
<td>Ph.D., University of Tex.</td>
<td>Management</td>
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<tr>
<td>William C. Hockett</td>
<td>M.B.A., University of Den.</td>
<td>Accounting</td>
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<tr>
<td>Leta F. Holley</td>
<td>Ed.D., University of Co.</td>
<td>Secretarial Science</td>
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<tr>
<td>James Q. Hossack</td>
<td>M.S.C.E., University of Neb.</td>
<td>Engineering</td>
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<td>Hubert L. Hunkeler</td>
<td>Ph.D., University of Mich.</td>
<td>Mathematics</td>
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<td>Francis M. Hurst</td>
<td>E.D., Indiana University</td>
<td>Psychology</td>
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<td>Charles O. Ingham</td>
<td>Ph.D., University of Ut.</td>
<td>Biology</td>
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<td>Willam E. Jaynes</td>
<td>Ph.D., Ohio State U.</td>
<td>Psychology</td>
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<td>James O. Johnston</td>
<td>Ph.D., Oklahoma State U.</td>
<td>Psychology</td>
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<td>D. F. Kellams</td>
<td>Ed.D., University of Kan.</td>
<td>Education</td>
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<td>Paul C. Kennedy</td>
<td>E.D., University of Kan.</td>
<td>Secondary Education</td>
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<td>C. Robert Kepner</td>
<td>Ph.D., Massachusetts Institute of Technology</td>
<td>Chemistry</td>
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<td>W. C. B. Lamberth</td>
<td>Ph.D., Washington University</td>
<td>Political Science</td>
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<td>William R. LeMar</td>
<td>E.D., University of Kan.</td>
<td>Engineering</td>
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<td>Walter L. Linblom</td>
<td>Ph.D., University of Mo.</td>
<td>Economics</td>
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<tr>
<td>John W. Lucas</td>
<td>M.B.A., University of Neb.</td>
<td>Business Administration</td>
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<td>S. R. Lint</td>
<td>Phil., University of Utah</td>
<td>Biology</td>
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<td>Kulip Singh Mal</td>
<td>Phil., Indiana University</td>
<td>Economics</td>
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<td>D. N. Marquardt</td>
<td>Ph.D., State University of Iowa</td>
<td>Chemistry</td>
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<td>Anson D. Martin</td>
<td>E.D., University of Wis.</td>
<td>Engineering</td>
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<td>Cora Martin</td>
<td>Phil., University of Tex.</td>
<td>Sociology</td>
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<td>John C. McMullen</td>
<td>M.A., University of Neb.</td>
<td>Physics</td>
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<td>O. D. Munro</td>
<td>Phil., University of Neb.</td>
<td>Political Science</td>
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<td>Woodrow I. Most</td>
<td>Phil., Laval University</td>
<td>Foreign Languages</td>
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<td>Kirk E. Naylor</td>
<td>Ed.D., University of Kan.</td>
<td>Education</td>
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<td>M. A. Neumark</td>
<td>Phil., University of Den.</td>
<td>English</td>
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<td>M. Glenn Newport</td>
<td>Ph.D., University of Ill.</td>
<td>Management</td>
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<td>John M. Newton</td>
<td>Phil., Ohio State University</td>
<td>Psychology</td>
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<td>B. Gale Ostron</td>
<td>Phil., University of Wy.</td>
<td>Education</td>
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<td>Robert C. O'Reilly</td>
<td>Ed.D., University of Kan.</td>
<td>Education</td>
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<td>D. T. Pedrosi</td>
<td>Phil., University of Tex.</td>
<td>Psychology</td>
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10 UN IVERSITY OF OMAHA

Ph. D., The Victor ia U nivers ity. 11/7; Professor

Dean of Student Personnel

LEONARD PRESTWICH

Ph. D., Ohio State University, 1957; Professor

Leonard Prestwich

Marketing

Ph. D., Indiana University, 1955; Vice President, Planning and Development; Professor

GEORGE R. RAGG E

Ph. D., Cornell University, 1911; Assistant Professor

Harry W. Reynolds, Jr.

Political Science

Ph. D., University of Pennsylvania, 1954; Associate Professor

ROY M. ROBBINS

Ph. D., University of Wisconsin, 1929; Professor

WILLIS P. ROKES

J.D., University of Utah, 1951; Ph.D., Ohio State University, 1959; C.L.U.; C.P.C.U.; Professor

Otto Rucker

Mathematics

Ph. D., University of Michigan, 1963; Associate Professor

GORDON SCHULZ

Ph. D., Clark University, 1948; Professor and Head of Department

DAVID C. SCOTT

Ph. D., State University of Iowa, 1948; Professor and Head of Department

James Selke

Elementary Education

E.D., University of Colorado, 1941; Assistant Professor

Keith P. Smith

Mathematics

Ph. D., Iowa State University, 1966; Assistant Professor

Rus sell A. Snyder

Economics

Ph. D., University of Illinois, 1964; Associate Professor

Lorin C. Staats, Jr.

Ph. D., Ohio State University, 1956; Assistant Professor

Paul J. Stageman

Ph. D., University of Nebraska, 1963; Professor

Elroy J. Steele

Economics

Ph. D., State University of Iowa, 1957; Professor and Head of Department

S. Laird Swager

Ph. D., State University of Iowa, 1948; Professor

A. Stanley Theckett

Ph. D., The Victoria University of Manchester, England, 1935; Professor and Head of Department

William T. Utley

M.A., University of Arkansas, 1906; Professor; Dean, College of Continuing Studies

Phillip H. Vogt

Sociology

M.S., Washington University, 1915; Professor

Unive rsity of Omaha

William E. Walden

Mathematics

Ph.D., New Mexico State University, 1964; Associate Professor; Director, Computer Services

Ralph M. Wade

Ph.D., Harvard University, 1948; The Jefferson Professor of English Literature and Head of Department

Floyd Waterman

Elementary Education

E.D., Teachers College, Columbia University, 1965; Associate Professor

Richard L. WikoFF

Ph.D., Oklahoma State University, 1965; Assistant Professor

Raymond A. Zeharli

Education and Mathematics

Ph.D., University of Minnesota, 1963; Assistant Professor

GRADUATE LECTURERS

D. Craig Affleck

Psychology

Ph.D., Northwestern University, 1954

Craig Fullerton

Education

Ph.D., State University of Iowa, 1957

Rene Hlavac

Education

E.D., University of Nebraska, 1962

Randall T. Kleemef

Economics

Ph.D., Iowa State College, 1947

Walter Parker Moore, Jr.

Engineering

Ph.D., University of Illinois, 1961

Edwin Hugo Parsh

Education

E.D., University of Nebraska, 1965

Neil Widdow

Psychology

E.D., University of Nebraska, 1958

ACCREDITED STANDING

The University of Omaha is fully accredited by the North Central Association of Colleges and Secondary Schools, the National Council for Accreditation of Teacher Education, and is a member of the National Commission of Accrediting (not an accrediting agency), the American Association of Colleges for Teacher Education, the Association of Urban Universities, the Association of American Colleges, the National University Extension Association, the American Association of University Women, the Council of Graduate Schools in the United States, the Midwest Conference on Graduate Study and Research, the Association of University Evening Colleges, the Adult Education Association of the United States, American Association of Collegiate Schools of Business, Association of Governing Boards, the approved list of the International Reading Association, and the American Council on Education. Its courses are accepted, for purposes of teacher certification, by the Nebraska State Department of Public Instruction.

Course credits from the University of Omaha are accepted by other colleges and universities which are members of the North Central Association and by other regional accrediting agencies.
UNIVERSITY REGULATIONS

The University and its various colleges, divisions, and departments reserve the right to change the regulations controlling admission to, instruction in, and graduation from the University or its various divisions.

Such regulations are operative whenever the University authorities deem necessary and apply not only to prospective students but also to those currently enrolled in the University.

The University also reserves the right to withdraw courses, to reallocate instructors, and to change tuition and fees at any time.

GRADUATE COLLEGE

Elton S. Carter, Dean

The first Master's degree was awarded by a special vote of the Board of Regents of the "old" University of Omaha in June, 1931. Graduate work leading to the Master of Arts degree was authorized by the newly organized Municipal University, September, 1931, to be supervised by a Committee on Graduate Studies. In 1942, the Graduate Division was established. The degree of Master of Science in Education was approved in 1948. In 1954, the Committee on Graduate Studies became the Graduate Council and the Chairman became the Director of the Division. In 1960, the Board of Regents authorized a year of graduate study in Education beyond the Master's degree. In 1966, the Graduate Faculty replaced the Graduate Council.

Recognizing the growing importance of graduate education, the Board of Regents, in October, 1962, established the Graduate College as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College.

The Graduate College at the University of Omaha was established to provide an opportunity for advanced study and independent investigation in a limited number of fields of learning for qualified students:

1. To work toward a Master of Arts or Master of Science degree.
2. To earn graduate credit for the issuance or renewal of certificates for teachers and administrators.
3. To provide for professional advancement and scholarly objectives.

Consistent with these objectives, numerous opportunities are provided for advanced students to design and conduct original research or investigation to discover facts, methods or values. Working with the guidance of a major advisor, the student must exercise his own initiative to master and apply the principles of methodical study and evaluation, utilizing the existing literature in his chosen field of study. To enable the student to attain these objectives, the Graduate College provides workshops, institutes, seminars, research and special problems courses, and the supervision of theses or special projects.

Thus the Graduate College promotes the spirit of free investigation in the various fields of knowledge, and at the same time serves to unite the various branches of the University in the common task of advancing human knowledge and providing for society intelligent, capable leadership.

ADMINISTRATION

The Graduate Faculty prescribes the qualifications of all professors who offer graduate work and approves all courses which may be taken for graduate credit. The Dean of the College serves as Chairman of the Graduate Faculty.

To be elected to membership in the Graduate Faculty requires recommendation by the Department Head, by the cognizant Dean and
the Academic Standards and Curriculum Committee, and approval by the Dean of the Graduate College. The qualifications for membership include a Doctoral degree or the equivalent; demonstrated interest and capability in both scholarly research (or comparable professional development activities) and graduate teaching. Graduate faculty members have the responsibility within their departments to design and revise courses for which graduate credit is offered. They counsel graduate students in major and minor fields and serve on graduate students’ committees.

PURPOSE

The Graduate College provides the opportunity, the faculty and the resources to meet the various needs of graduate students for more advanced and more specialized education than the undergraduate work upon which all graduate programs are founded.

GRADUATE ASSISTANTSHIPS

Available for qualified students who are enrolled in a graduate degree program are graduate assistantships in teaching, research or laboratory supervision. The assistant’s assignment is designed to provide ancillary opportunities for supervised educational experiences at the graduate level in conjunction with the degree program. The stipend for each assistantship is normally $2000, plus remission of graduate tuition (limited to thirty or thirty-six credit hours); and approximately twenty hours of work per week is required. The enrollment of students with assistantships will be limited to no more than twelve credit hours per semester unless the student has demonstrated extraordinary efficiency and the Head of the major department recommends the abnormally high work load to the Graduate Dean for his approval.

Applications and their supporting credentials must be received on or before March 1. Address requests for information and application forms to the Dean of the Graduate College.

SCHOLARSHIPS

Phi Delta Gamma, a national fraternity for women, offers an annual scholarship of $200 to a woman graduate student who has completed approximately half her graduate work with an excellent record. For applications and details concerning this scholarship, contact the Dean of the Graduate College. Applications should be in the Graduate Office by March 1 of each year to be considered for the following academic year.

ORGANIZATIONS

Phi Delta Gamma is a national fraternity for women in all fields. Membership is by invitation.

Phi Delta Kappa is a national fraternity for men who are graduate students in Education. Membership is by invitation.

Beta Gamma Sigma is a national honorary society for graduate students in Business Administration. Membership is by invitation.

Pi Chi is a national honorary society for graduate students in Psychology. Membership is by invitation.

Omega Delta Epsilon is a national honorary association for graduate students in Economics. Membership is by invitation.

UNIVERSITY OF OMAHA

PROCEDURES AND REGULATIONS

Admission and Transcripts

The student admitted to graduate study is advised to familiarize himself with the academic regulations of the University and the Graduate College, and the student is expected to assume full responsibility for knowing the particular requirements of his own academic program. The student is responsible for complying with all regulations of the University, the Graduate College, and the departments of instruction, and for meeting all requirements for his degree. The student should consult with his adviser whenever he has any question concerning the requirements for his degree.

Admission to the Graduate College may be granted to students who hold a baccalaureate degree from an accredited institution, and who offer at least fifteen semester hours of undergraduate work in the department of the proposed graduate major.

New students should correspond with, or go directly to, the Director of Admissions in order to apply for admission. Each new student will be required to file with the Director of Admissions:

1. An application for graduate study at the University of Omaha.

2. Present two (2) official transcripts of all undergraduate (and graduate, if any) college work previously taken. (Graduates of the University of Omaha need not submit transcripts.)

3. Pay a transcript evaluation fee of $5 at the Cashier’s Office and have the receipt validated by the Director of Admissions. When applying by mail, enclose a check payable to the University for the transcript evaluation fee.

4. Scores of the Graduate Record Examination or Admission Test for graduate study in Business should be filed in the Graduate Office.

Applications for admission should be in the office of the Director of Admissions before September 1, January 15, or June 1 according to the time when the student expects to matriculate. Applications for admission, together with transcripts, must be filed not only by those students desiring to work for a degree, but also by students desiring graduate credit for a renewal of a teacher’s certificate or for graduate credit to be transferred to some other school.

Foreign students must provide letters of recommendation, statements of financial independence, and evidence of ability to speak and write the English language. The baccalaureate degree must have been received from an institution accredited by the proper accrediting agencies.

Admission to the Graduate College does not admit the student to candidacy for any graduate degree. (see “Admission to Candidacy for Graduate Degrees.”)

CLASSIFICATION OF ADMISSION

UNCONDITIONAL

Unconditional admission to graduate study may be granted to a student who has a Bachelor’s degree from a regionally accredited
institution, who has earned at least a B average in the undergraduate work in his proposed graduate major and minor, and who presents at least 15 semester hours of undergraduate work that meet specific requirements of the departments in his graduate major and minor. A student from an institution which is not regionally accredited will be admitted on the same basis as he would be admitted by the state university or reporting institution in that state. In such cases, further work may be required, or suitable examinations, or in some cases the completion of a Bachelor's degree in an accredited institution. In addition to the specified transcript record, appropriate scores of the Graduate Record Examination should be supplied to the Graduate Dean prior to first enrollment.

PROVISIONAL

Provisional admission may be granted to a student who has a Bachelor's degree from a regionally accredited institution but who has not completed all of the undergraduate prerequisites course requirements for admission to the Graduate College. This provisional status will continue until such time as the student has completed all of the undergraduate prerequisites for graduate study. A student on a provisional basis may, with the recommendation of the department head concerned, and the approval of the Graduate Dean, take the undergraduate prerequisite courses and a graduate course concurrently, provided he has met the prerequisite requirements for the graduate course.

Provisional admission may occasionally be granted to a student who has less than a B average in the undergraduate work in his proposed graduate major and minor, (but in no case less than a C average) upon recommendation of the department head of the major department and minor if one is involved and written approval by the Graduate Dean. This admission may be made for reasons of maturity, experience, or other extenuating circumstances under which the student may be deemed capable of high quality graduate study. This provisional admission will not be removed until the student has successfully demonstrated to the satisfaction of the Department and the Dean his ability to pursue graduate study.

A student may not apply for admission to candidacy for any degree until he has met the requirements of unconditional admission.

SPECIAL

Special students who are not working on a degree program may be permitted to take graduate courses. This applies to graduate students who are meeting requirements for renewal of a teaching certificate, professional growth courses for graduate credit, or students who are taking courses for cultural reasons. Students taking work in the special student classification must hold a Bachelor's degree from a regionally accredited institution and meet the prerequisite requirements set up by the departments in which they are doing their work. Any graduate credit earned by such a special student may be applied toward a degree program only after a student has been granted full standing (unconditional admission) and only if the credits he has earned are applicable on the degree program he proposes to pursue. The cognizant Department Head recommends unconditional admission with all credits specified and then the Graduate Dean rules on the student's application.

CONDITIONAL

A student who is within three semester hours of having completed all requirements for the Bachelor's degree at the University of Omaha, may be provisionally admitted to the Graduate College.

ADMISSION TO TEACHER EDUCATION PROGRAMS

Students who plan to work for the Master's degree with a major in one of the fields of education must hold a valid teaching certificate or be eligible for such a certificate at the undergraduate level before entering the program.

GRADUATE RECORD EXAMINATION

Graduate students who are candidates for a Master's or Specialist in Education degree are required to take the Graduate Record Examination during their first semester of enrollment in the Graduate College, unless they have taken it previously and have made the scores available to the Dean of the College.

This examination, which requires no special preparation or review, gives valuable evidence of a student's qualifications for graduate work and is helpful in planning courses of graduate study. A nominal fee is charged for the examination. A student who has not taken the examination prior to his application for admission to the Graduate College but who is judged from other evidence to be capable of graduate study, is assigned provisional status. A final determination of classification will be made after the examination scores have been studied.

Applicants for admission to the Master of Business Administration program are required to take the Admission Test for Graduate Study in Business in lieu of the Graduate Record Examination.

FOREIGN LANGUAGE REQUIREMENT

The major department may require a candidate for the Master's degree to demonstrate by examination a satisfactory reading knowledge of one modern foreign language. Specific instructions regarding the language requirement may be obtained from the student's adviser.

REGISTRATION PROCEDURE

The student is to follow the usual procedure in registering for courses by filling out the proper class cards and other registration blanks and by paying fees at the Business Office. At each registration period the student must secure the signature of his major adviser and of the Dean of the Graduate College if he is registering for more than twelve hours or more than fifteen hours without an assistantship. Students must have been formally admitted to the Graduate College prior to their first registration.

Graduate students who are not working towards a Master's degree are regarded as "special" students. "Special" students include:
CERTIFICATION OR PROFESSIONAL GROWTH

Students who wish to take courses for professional growth must meet the same admission requirements as other graduate students. They must also make application for admission to the Graduate College. (See Admission to Graduate College.)

ADMINISTRATIVE CERTIFICATE

Students who are preparing to meet the requirements for an Administrative or Supervisory Certificate must submit to the Office of the Dean of the College at the time of application, the names of three persons who can vouch for their personal and professional qualifications as a prospective school administrator.

ADMISSION TO CANDIDACY FOR GRADUATE DEGREE

Admission to the Graduate College does not admit the student to candidacy for any degree.

It is the student's responsibility to make application for candidacy for a degree as soon as he can qualify for admission to candidacy. The qualifications are: (1) the scores on the Graduate Record Examination (or the Admission Test for Graduate Study in Business, if applicable) must be on file in the Graduate Office; (2) nine hours of graduate credit must have been completed at this University; and (3) a grade average of "B," with no grade lower than "C."

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved.

A Screening Committee will review the applications for candidacy for graduate degrees and will recommend approval or disapproval to the Graduate Faculty. This Screening Committee is appointed by the Graduate Dean and will consist of one member of the Graduate Faculty from each undergraduate college containing departments offering work toward graduate degrees and one representative of the Graduate College.

Application forms should be filled out by the student — in consultation with his major and minor advisers — as soon as the student can qualify for admission to candidacy. Both the major and minor programs should be carefully and completely planned at this time and the application should be signed by both the major and minor advisers. The application form and the programs of study should be filed in the graduate office and copies should be provided for the major adviser, the minor adviser, and the student.

Programs of study should be planned with acceptable alternatives included. Once approved, any modification of a program of study is permissible only upon recommendation of the major adviser if the major is concerned, of the minor adviser if the minor is concerned, and the approval of the Dean of the Graduate College. One course may be substituted in an approved program, in case of exceptional hardship, by action of the Dean of the Graduate College upon recommendation of the major and minor advisers.

APPLICATION FOR THE DEGREE

The candidate for the degree must file an application for degree in the Registrar's Office in the semester or session in which the degree is to be granted. The graduation fees must be paid at the same time as the application is made. (See Calendar for date.)

THESIS

All candidates for the Master of Arts degree are required to prepare a thesis under the direction of the major adviser approved by a committee. The thesis provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Up to six hours of credit is allowed for the thesis and the candidate must include the thesis as a course in his schedule during at least one semester in residence. At the beginning of each semester before the student has initially registered for thesis credit he must inform the Graduate Office of this fact. Failure to notify the Graduate Office or to be in continuous progress toward the completion of the thesis may result in loss of the thesis topic. The thesis should be initiated at least eight months before the commencement in which the student plans to receive his degree.

Three typewritten copies of the thesis (two copies for the University Library and the student's personal copy), plus an additional copy if required by the department, must be approved by the major adviser and submitted to the Graduate Office in final form no later than the second week in November in the fall semester, the third week in March in the spring semester, or the second week of the summer session. The first copy must be a typewritten copy on permanent bond paper of 24-pound weight; the other two should be on paper of at least 16-pound weight. Either pica or elite type may be used in typing. Full instructions for the preparation of theses should be obtained from the Graduate Office when the student registers for thesis.

Thesis Manual: The responsibility for placing the thesis in final form rests with the student and his major adviser. All theses must be written in accordance with a standard thesis manual. The Graduate Faculty has approved an official manual for each department and the student will be advised by his major adviser of the standard form to be used.
The cost of binding three copies (see Fees) must be paid by the candidate at the time the thesis is submitted in final form to the Graduate Office. If the department conducting the thesis requires an additional copy, it is to be bound at department expense. The fees are payable in the Cashier's Office.

**ORAL EXAMINATION ON THESIS**

After the thesis has been delivered to the Graduate Office in final form, the Dean, upon nomination from the major adviser, will appoint or reconfirm a committee to read the thesis and conduct the oral examination over the thesis and thesis field. This committee shall consist of members from the major department and at least one graduate faculty member from another department of the University. If the thesis examination is to be combined with the oral comprehensive (noted above), one-half the time shall be devoted to the thesis and one-half to the candidate's courses taken by the candidate.

Final comprehensive oral examinations must be taken at least 30 days before the convocation at which it is expected that the degree will be conferred.

Oral examinations cannot be scheduled during the period between the close of the first term of the summer session and the beginning of the subsequent fall semester.

**FINAL COMPREHENSIVE EXAMINATION**

A final comprehensive examination is required of all candidates for the Master's degree near the conclusion of their graduate study. For those who are candidates for the 36-hour Master of Science degree, the examination is a written examination held on the University of Omaha campus on a specified date: the second Saturday in January, the last Saturday in April, and the fourth week of the first term of the Summer Session.

For the degree of Master of Arts, the final comprehensive examination may be either written or oral. If written, it must be arranged at the convenience of the major adviser. Candidates for the Master of Arts degree and those Master of Science degree candidates who are taking a comprehensive examination in the field of the academic minor must have completed both the major and minor comprehensives not later than 30 days prior to the commencement at which the degree is to be granted during the regular semesters, and not later than the first week of the second term of the Summer Session. If the comprehensive is to be oral, it should be arranged at the time of the oral examination over the thesis, at which time one-half of the examination can be devoted to the courses taken by the candidate and one-half to the thesis.

If the course work has been of very high quality the minor adviser may suggest and the student's committee recommend to the Graduate Dean that the candidate be excused from the comprehensive examination covering the minor field. This does not prejudice the privilege of the minor professor giving a comprehensive, if he so desires. The minor comprehensive is given at a date arranged at the convenience of both the student and the minor adviser but falling within the limits established for all comprehensive examinations.
have been especially approved by the Graduate Faculty with syllabi on file in the Graduate Office.

Courses numbered 500 and above are open only to graduate students. A limited number of upper-division courses are available for graduate credit but the graduate student is expected to do a higher level of work than the undergraduate students.

**RESIDENCE REQUIREMENTS**

A minimum of 30 semester credit hours in residence (30 in case of the Master of Science in Education degree), is required for granting of the Master's degree, except as provision is made for the transfer of credit. No credit will be allowed for extension or correspondence work.

**TRANSFER OF CREDIT**

Students who have completed graduate courses at other approved graduate schools (excluding extension schools) may petition to transfer as much as six hours of credit, provided the courses considered are pertinent to the student's graduate program. Courses for which transfer is requested must have been used to satisfy the requirements for any previously awarded degree. Grades in courses for transfer of credit must be the equivalent of "B" or higher. No transfer of credit can be made until the student has been admitted to candidacy for the degree. All work accepted for transfer of credit must have been taken within the five-year period allowed for the Master's degree.

A student who has been approved as a candidate for the Master's degree may, with the prior recommendation of the major adviser and the approval of the Graduate Dean, earn transfer credit in other graduate schools to the limit of six semester hours in the Master of Arts program and nine semester hours in the Master of Science in Education program. The total hours of transfer credit may not exceed the amount stated.

In the Education Specialist degree, six semester hours of work beyond the Master's level may count as transfer credit, upon recommendation by the major adviser and with the approval of the Graduate Dean.

**WITHDRAWAL FROM A COURSE OR FROM THE UNIVERSITY**

A student who wishes to drop all classes and withdraw from the University proceeds as follows:

1. Obtain withdrawal slip from the Registrar's Office or his adviser.
2. Confer with his adviser and obtain his signature on the withdrawal card.
3. Confer with his Academic Dean and obtain his signature on the withdrawal card.

4. Report to the Office of the Dean of Student Personnel and turn in his activity and library cards.

Refunds will be based on the official schedule.

**DROP**—When a student finds it necessary to drop a course, he should notify the Registrar and his advisor immediately. If a student is passing at the time he withdraws, his record will be marked "W" indicating that he withdrew in good standing. If the student is failing at the time he withdraws, his record will be marked "X," indicating that he was failing at the time of withdrawal.

A student may not drop a course with any grade other than "F" after the eighth week of the semester.

**WORKSHOPS**

No more than one workshop of three hours credit may count toward the Master's degree (College Business Management program excepted).

Exceptions to the above general and special rules and regulations may be made in meritosi cases only with the consent of the Graduate Dean upon recommendation of the major and minor advisers.

**REQUIRED PROCEDURE FOR GRADUATE STUDENTS**

1. File two official transcripts of undergraduate credits (and graduate, if any) and an application for admission form with the Director of Admissions. You will be notified by mail of your admission to the college.
2. Arrange your class schedule with your adviser and have him sign your registration slip.
3. Arrage to take the Graduate Record Examination or the Admission Test for Graduate Study in Business in Room 213, Administration Building. If you have previously taken the examination, have the scores sent to the Graduate Office.
4. Apply for admission to candidacy for the degree in accord with the procedure described above.
5. In the semester or session in which the degree is to be conferred, the candidate must file his intention of taking the degree in the Office of the Registrar. (See Calendar for exact date.)
6. Arrange with your adviser at least three weeks in advance for the major Comprehensive Examination and notify the Graduate Office. In the case of candidates for the Master of Science degree, the established schedule is: fall semester, second Saturday in January; spring semester, last Saturday in April; summer session, some time to be arranged during the fourth week of the first term. Arrange with your minor adviser at least three weeks in advance of the intended date to take the minor comprehensive examination, and notify the Graduate Office.
7. The thesis for the Master of Arts degree must be submitted in final form to the Graduate Office not later than the second week in November in the fall semester, the fourth week in March in the spring semester, or the second week of the first Summer Session. No thesis examinations will be scheduled during the second Summer Session.

8. Master of Arts candidates must arrange for the Oral Examination to be given at least 30 days before the date of commencement. In the Summer Session, oral examinations must be completed before the close of the first term.

9. Order the cap and gown from the Book Store.

10. Attend Commencement unless excused by petition to the Graduate Dean at least two weeks in advance.

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### TUITION AND FEES

Student fees are payable in full at the time of registration. Registration is not complete until cleared by the cashier. The University reserves the right to change the amount of tuition and fees at any time, or to assess breakage, deposit, lost property, or service fees not specifically listed in this schedule.

The average fees per semester are approximately $300.00 for residents of Omaha, and $450.00 for non-residents.

Students in need of loans, deferred payments, or other financial assistance must consult the Student Aid Officer in room Adm. 249, at least two weeks prior to the start of classes.

### INSTRUCTION

<table>
<thead>
<tr>
<th>Tuition, per semester credit hour:</th>
<th></th>
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<tbody>
<tr>
<td>Undergraduate, Graduate or Audit</td>
<td></td>
</tr>
<tr>
<td>Resident of Omaha</td>
<td>$10.00</td>
</tr>
<tr>
<td>Non-resident</td>
<td>20.00</td>
</tr>
<tr>
<td>Applied Music: Voice and all instruments except pipe organ</td>
<td></td>
</tr>
<tr>
<td>(Fee may be waived by the Head of the Music Department)</td>
<td></td>
</tr>
<tr>
<td>One semester credit hour + additional fee</td>
<td>40.00</td>
</tr>
<tr>
<td>Two semester credit hours (same instrument) +adj fee</td>
<td>60.00</td>
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<tr>
<td>Non-credit:</td>
<td></td>
</tr>
<tr>
<td>16 lessons</td>
<td>50.00</td>
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<tr>
<td>8 lessons</td>
<td>35.00</td>
</tr>
<tr>
<td>Public Health Nursing: additional fee</td>
<td>30.00</td>
</tr>
<tr>
<td>TV Classroom (per 3 hr. course - includes materials)</td>
<td>60.00</td>
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</tbody>
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**Conferences and Non-credit courses:**

Fees are determined for each offering on an individual basis.

### GENERAL FEES

| Full-time students (12 credit hours or more) per sem. | 30.00  |
| Part-time students (less than 12 hours) per sem. | 15.00  |
| Summer Sessions (per session) | 15.00  |

General fees are assessed to every student each semester, except that summer session students who complete registration for both sessions at the initial registration period will be assessed the fee only once. Included in this fee are charges for registration, health service, library, and student center as well as materials and supplies furnished by the University for instruction.

The full-time fee of $30.00 also entitles the student to a regular student activities card covering athletics, publications and general student activities. Part-time students may obtain a regular student activities card by paying an additional $9.00 per semester.

### GRADUATION FEES

| Graduate College | 15.00  |
| Baccalaureate Degree | 12.50  |
OTHER FEES, CHARGES AND DEPOSITS

Matriculation charge of college: $18.00
Payable upon initial enrollment and upon each subsequent change of college.
Late Registration (Day or Evening Classes): $3.00
Deferred Payments (if approved by Student Aid Officer): $5.00
Change of Schedule - per change: $5.00
Change of Academic Record - per change: $5.00
Removal of Incomplete, grade change, etc: $5.00
Transcript Evaluation (transfer students and Graduate College): $5.00
Transcript of Academic Record - per copy: $1.00
Teacher Placement Registration: $6.00
Thesis Binding (additional copy - $4.00): $12.00
Share of insufficient fund or no-fund checks are considered to he deferred payments.
Late registration fee may also be assessed if applicable.
Replacement of Student Activity Card (with approval): $1.00
A.F.R.O.T.C. Activity Fee - per semester: $2.00
A.F.R.O.T.C. Uniform Deposit (refundable): $15.00
Key Deposit (if authorized) (refundable): $5.00
Tests and Examinations:
Guidance and Placement - at scheduled times: $5.00
Special, proficiency, advanced standing, or out of schedule: $5.00
C.C.T. tests for credit in the College of Continuing Studies - $20.00: if this amount may be applied toward tuition if test score is satisfactory per test: $25.00
Vocational Testing and Counseling:
Fee for these services depend upon tests administered and extent of counseling. Inquire in room Adm. 213 for charges.

REFUND SCHEDULE

Refunds are computed from the date application is received by the Registrar, NOT from date of withdrawal from classes. Refund slips issued by the Registrar and given to students are void and not redeemable, unless presented to the Cashier (room Adm. 150) within 30 days after date of issue.

A student must file notice of withdrawal from classes, accompanied by written approval of the advisor and the Dean of Student Personnel, with the Registrar immediately upon dropping any course.

REGULAR SEMESTER

Withdrawal before classes start: 100%
Withdrawal during 1st or 2nd week: 75%
Withdrawal during 3rd or 4th week: 50%
Withdrawal during 5th or 6th week: 25%
Withdrawal after 6th week: 0%

SUMMER SESSIONS (5 WEEK SESSION)

Withdrawal before classes start: 100%
Withdrawal during 1st three days: 75%
Withdrawal during remainder of the 1st week: 50%
Withdrawal during 2nd week: 25%
Withdrawal after 2nd week: 0%

CREDIT COURSES (15 WEEK SESSION)

Withdrawal before classes start: 100%
Withdrawal during 1st week: 75%
Withdrawal during 2nd week: 50%
Withdrawal during 3rd week: 25%
Withdrawal after 3rd week: 0%

NON-CREDIT AND SPECIAL COURSES

(10 weeks or more)

Withdrawal before classes start: 100%
Withdrawal during 1st week: 75%
Withdrawal during 2nd week: 50%
Withdrawal after 2nd week: 25%
Withdrawal after 10 weeks: 0%

(LESS THAN 10 WEEKS)

Withdrawal before classes start: 100%
Withdrawal before 2nd class: 50%
Withdrawal after 2nd class: 0%

DEFINITION OF NON-RESIDENT STATUS

The Board of Regents' rules provide that the non-resident fee shall be assessed and collected each semester from:
1. All students who actually reside outside the city limits of Omaha.

Students paying tuition and fees on a deferred payment plan are not subject to this additional fee.
2. Students who are under 21 years of age, unmarried, and whose parents or legal guardians live and maintain their place of domicile outside the city limits of Omaha.

3. Students over 21 years of age living in Omaha, whose parents or legal guardians live outside the City of Omaha, who have not qualified to vote in Omaha, or who have not furnished other satisfactory evidence of bona fide residence.

Note: a. Residence of a wife follows that of the husband.

b. Residence status shall be determined at the time of each registration. A change of circumstances during the semester does not justify an adjustment of fees during the semester.

c. In case a legal resident of the City of Omaha is appointed guardian of a minor, the residence of such minor for the purpose of this rule shall be considered established in the City of Omaha unless such legal guardian is appointed solely for the purpose of avoiding the payment of non-resident tuition to the University of Omaha.

d. Proof of residence status rests with the student whenever he challenges assessment of the non-resident fees. Payment of such fees may not be postponed pending decision of any case, but fees shall be refunded to the student if it is later found that they have been collected through error. Willful misstatement or concealment of any facts to influence the decision of a non-resident case is cause for immediate dishonorable dismissal from the University.

CO-OPERATIVE PROGRAM LEADING TO THE DOCTOR OF EDUCATION DEGREE

The University of Omaha in cooperation with Indiana University School of Education (Bloomington, Indiana) has arranged a program under which a student who wishes to complete the Doctor of Education degree may take all or part of the second year of graduate work at the University of Omaha and then take the third year of work, leading to the degree, at Indiana University. For further details concerning this program, and the transfer of work beyond the Master's degree to other institutions, please consult the Dean, Graduate College at the University of Omaha.

THE MASTER OF ARTS DEGREE

WITH MAJORS IN EDUCATION, ENGLISH, HISTORY, PSYCHOLOGY, SOCIOLOGY, MATHEMATICS, GEOGRAPHY

The program for the Master of Arts degree will usually be arranged to conform to either of the following general patterns:

(1) A major of 21 semester hours in the major field of study.

(2) A thesis not to exceed six semester hours in independent study under the direction of the major adviser.

OR:

(1) A major of 15 semester hours in the major field of study.

(2) A minor of nine semester hours in a related field of interest.

(3) A thesis not to exceed six semester hours in independent study under the direction of the major adviser.

Note: Sociology students — see Master of Science degree with a major in applied sociology for specific examination requirements.
MASTER OF ARTS DEGREE
WITH A MAJOR IN BIOLOGY

To enter the program for the Master of Arts degree in biology, the student must present credit in the biological sciences of one semester each of basic botany and basic zoology, or two semesters of general biology, and the ancillary sciences of two semesters of general or inorganic chemistry, two semesters of general physics, and mathematics through trigonometry. Two semesters of organic chemistry are required before the completion of the degree, but this may be taken as graduate credit after entrance into the program.

To complete the degree, it will be necessary that the student present a minimum of 24 undergraduate and 30 graduate hours in the biological sciences. Eight hours of organic chemistry taken at the graduate level may be credited toward the total graduate hour requirement. Combined undergraduate and graduate credit in the biological sciences shall include courses in genetics, evolution, structural sciences, physiology, cellular biology, taxonomy, ecology, seminar, and credit up to six hours in a thesis.

MASTER OF ARTS DEGREE
WITH A MAJOR IN GEOGRAPHY

An applicant for admission to the Master of Arts degree program in geography must present as a prerequisite a minimum of 15 undergraduate semester hours of geography including physical, economic, political and urban.

Degree Requirements: The degree requires a minimum of 30 semester hours in geography courses numbered 400 and 500, including a thesis. Permission of the department head is required for a student to take more than two 400 level courses to apply toward an M.A. degree. A thesis involving field work in an area of study under the direction of a major adviser is required.

Basic courses required for an M.A. degree include Urban Geography, Cultural Geography, Political Geography Seminar, Geomorphology or Physiography of North America and Cartographic Methods.

MASTER OF ARTS DEGREE
WITH A MAJOR IN SPEECH PATHOLOGY

Candidates for the degree Master of Arts with a major in speech pathology are expected to meet the following requirements in addition to those for general admission:

1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. This examination is administered by the Speech and Hearing Clinic of the University.

2. Have successfully completed a minimum of 18 semester hours of courses in speech science and psychology. Speech science courses include such areas as phonetics, acoustics, anatomy and physiology of speech mechanisms, psychology of communication, etc. Psychology courses must include child psychology and psychology of adjustment areas.

A major sequence in speech therapy requires a minimum of 24 hours of course work plus a thesis (six hours). Candidates wishing to meet special national or state certification requirements for speech therapists often need additional hours of course work and practicum. Students should consult with their department adviser before planning their programs.

THE MASTER OF SCIENCE DEGREE
WITH A MAJOR IN EDUCATIONAL PSYCHOLOGY
OR INDUSTRIAL PSYCHOLOGY

Entrance requirements: (1) For educational psychology: A minimum of 15 hours undergraduate work beyond Psychology 101 and including Psychology 213 or an equivalent course. (2) For industrial psychology: A minimum of 15 hours undergraduate psychology including Psychology 101, Psychology 213, and Psychology 421 or equivalent courses.

Overall graduate work course requirement: EITHER 36 hours in psychology OR 24 hours in psychology plus 12 hours graduate work in a related minor field.

Required courses: (six hours)

Psych 412 Advanced Application of Statistics
Psych 501 History of Psychology
or
Psych 502 Current Trends in Psychology

Successful completion of a six-hour written examination is also required, three hours of which will relate to general psychology and three hours of which will relate to the specialty. This exam is to be taken when no more than three hours of graduate coursework (Psychology 490 and 505 excluded) remain beyond work in progress.

Additional required courses may be designated by the Department. In Industrial Psychology, these courses will ordinarily include Psychology 505; in Educational Psychology, at least one hour of Psychology 490, and Psychology 553 and 554 will ordinarily be included.

THE MASTER OF SCIENCE DEGREE
WITH A MAJOR IN BIOLOGY

To enter the program for the Master of Science degree in biology, the student must present credit in the biological sciences of one semester each of basic botany and basic zoology, or two semesters of gen-
eral biology, and the ancillary sciences of two semesters of general or inorganic chemistry, two semesters of general physics, and mathematics through trigonometry. Two semesters of organic chemistry are required before the completion of the degree, but these may be taken as graduate credit after entrance into the program.

To complete the degree, it will be necessary that the student present a minimum of 24 undergraduate and 36 graduate semester hours in the biological sciences. Eight hours of organic chemistry taken at the graduate level may be credited toward the total graduate hour requirement. Combined undergraduate and graduate credit in the biological sciences shall include courses in genetics, evolution, structural sciences, physiology, cellular biology, taxonomy, ecology, seminar and biological research.

**MASTER OF SCIENCE DEGREE**

**WITH A MAJOR IN GEOGRAPHY**

An applicant for admission to the Master of Science degree program in geography must present a minimum of 15 undergraduate semester hours in geography including physical, economic, political and urban.

**Degree Requirements:** The degree requires a minimum of 36 semester hours in geography courses numbered 100 and 500. No thesis is required for the M.S. degree. Permission of the department head is required for a student to take more than two 100 level courses to apply toward an M.S. degree.

Basic courses required for an M.S. degree include Urban Geography, Cultural Geography, Political Geography Seminar, Geomorphology of North America, Cartographic Methods, and Field Geography.

**THE MASTER OF SCIENCE DEGREE**

**WITH A MAJOR IN APPLIED SOCIOLOGY**

The applicant for admission to the graduate program in sociology must present a minimum of 15 undergraduate semester hours in sociology and a course in statistics.

The student will be expected to complete Sociology 501 and a minimum of 27 additional graduate semester hours which must include at least nine hours in an area of concentration, either Criminology—Penology or Community Organization. In addition, the student must complete satisfactorily six semester hour equivalents in supervised work practice related to his academic area of concentration.

The Master of Arts degree is preferable as preparation for continued scholarly work, the Master of Science as preparation for work in applied sociology. Both degrees require the student to demonstrate proficiency in the subject by means of the following comprehensive examinations.

1. After nine hours of graduate work, the student is eligible to take the qualifying examinations which consist of written tests in sociological concepts and statistics. Upon passing both parts of this examination, the student may apply for candidacy for the degree.

2. Some time before taking the final oral examination on thesis (M.A.) or practicum (M.S.), the student must successfully complete the written preliminary examination which covers topics in (1) social psychology, (2) social problems, (3) social organization, (4) research methods, and (5) social policy theory, or a minor field.

**THE MASTER OF SCIENCE DEGREE**

**WITH A MAJOR IN SPEECH PATHOLOGY**

Candidates applying for admission to a Master of Science degree program with a major in speech pathology are expected to meet the following requirements:

1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. This examination is administered by the Speech and Hearing Clinic of the University.

2. Have successfully completed a minimum of 15 semester hours of course work leading toward eligibility for teacher certification.

Those wishing to meet national or state certification requirements for speech therapy should consult with the departmental advisor before planning programs of study.

**THE MASTER OF SCIENCE DEGREE**

**WITH A MAJOR IN EDUCATION**

Students may major in the following fields: elementary education, guidance, public school administration (includes elementary and secondary administration), secondary education, nursing education, reading, special education, includes speech pathology, education for the deaf or mentally retarded, and college business management. Minor fields include: education (for those majoring in academic fields), elementary education, reading, secondary education and others.

**PROGRAMS FOR MAJORS IN EDUCATION**

Students pursuing a Master of Science degree with a major in education shall be expected to take selected courses in subject areas outside the field of specialization as indicated in the following program outlines. The following suggested programs apply only to the M.S. in Education. Programs for the M.A. degree with a major in education will be determined by the major adviser, upon request.

**MAJOR IN ELEMENTARY EDUCATION**

I. Selected Cognate Courses

- 4-12 hours

II. Required Courses

- Ed. 501, Introduction to Research
- Ed. 502, History and Philosophy of Education
- Ed. 505, Educational Seminar
### MAJOR IN SECONDARY SCHOOL ADMINISTRATION

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MAJOR IN TEACHING THE MENTALLY RETARDED

I. Required Courses
   - Ed. 501, Introduction to Research              30 hours
   - Sped. 520, Seminar in Special Education
   - Psych. 551, Advanced Educational Psychology
   - Sped. 462, Teaching the Exceptional Child
   - Psych. 409, Psychology of Exceptional Children
   - Sped. 463, Curriculum for the Mentally Retarded Child
   - Sped. 465, Methods and Materials for Teaching the Retarded
   - Sped. 425, Observation and Student Teaching the Mentally Retarded
   - (180 clock hours minimum practice)
   - Sped. 444, Speech Pathology II: Rhythm and Symbolization
   - (for Sped. 423, Teaching Language to Deaf)
   - Sped. 441, Speech Development and Correction
   - Sped. 446, Measurement of Hearing (for Psych. 532, Tests and Measurements in Education)

II. Directed Electives in Related Areas
   - Related areas are education, special education, counseling, psychology, sociology, and biology.
   - Prerequisite: Teacher Certificate or equivalent at the undergraduate or graduate level.
   - Substitutions possible where student has taken equivalent courses at the undergraduate or graduate levels.
   - Student responsible for prerequisites in any elective areas.

THE MASTER OF BUSINESS ADMINISTRATION DEGREE

This degree is designed to provide professional administrators with a broad understanding of business and its relationship to society. It encompasses the major areas of business administration and economics.

Prerequisites: Applicants for admission to the M.B.A. degree program must have completed satisfactory undergraduate work in the following areas: economic principles, accounting, marketing, finance, management, statistics, and legal environment of business. A student who is deficient in any of the prerequisite areas will be required to make up the deficiency with appropriate undergraduates courses.

The Admission Test for Graduate Study in Business is required prior to admission to the program.

Degree requirements: The degree requires a minimum of 38 semester hours for completion. Of these, 27 hours must be in the following required courses:

   - Econ. 521, Advanced Firm and Industry Theory
   - Econ. 523, Advanced Macroe-Theory
   - Bus. Adm. 530, Accounting for Management Control
   - Bus. Adm. 551, Business and Society
   - Bus. Adm. 561, Behavioral Sciences in Business

Emphasis in specific areas can be achieved by selection of nine hours of approved electives, three hours of which may be outside of business administration. Elective courses include the following: Econ. Adm. 531, Human Relations

A thesis is not required for the degree. A comprehensive final examination will be required when the student has completed his course work or is in his final semester.

MASTER OF SCIENCE DEGREE WITH A MAJOR IN COLLEGE BUSINESS MANAGEMENT

This degree is designed for finance officers of colleges and universities. For more complete details of this program, write to the Dean of the Graduate College.

A maximum of four hours of this program may be obtained through participation in the short course for college business officers (Education 516, College Business Management, two hours credit, offered during the last week in July each year.

In addition to the four hours of short-course credit, the candidate for the Master's degree must earn 12 hours of credit in the field of education as noted below (Education 481, 500, 502, and 505). Electives comprising 16 to 21 credit hours may be taken from graduate level courses in other areas approved by the major adviser. The student must present a total of 36 hours credit for the Master of Science degree. If the student desires, he may receive a Master of Arts degree by presenting 21 hours of credit plus a thesis of three to six hours credit in lieu of a corresponding number of hours of elective work. It will be noted that as many as six hours of credit may be transferred from other accredited graduate schools, provided the transferred credits can be fitted into the degree program.

Prerequisite: Bachelor's degree from an accredited institution which must include six hours in accounting. Students with inadequate
preparation in accounting must remove this deficiency before being a degree candidate.

1. Academic Electives (Not to exceed 21 hours)
   (From graduate level courses in education, political science, psychology, English, history, sociology, economics or business administration)

2. Required Courses (16 hours)
   Ed. 485, Principles of Adult Education
   Ed. 530, Research Project (Subject to be associated with college business management and report worthy of publication)
   Ed. 562, History and Philosophy of Education
   Ed. 565, Education Seminar
   Ed. 546, College Business Management

SPECIALIST IN EDUCATION DEGREE

The Specialist in Education degree (Ed.S.) is an advanced degree, involving a minimum of one year of study beyond the Master's degree. It is designed to prepare more competent educators.

Each applicant will be considered in terms of his educational and professional background and experience. The Ed.S. is designed to be independent of further study. Some students, however, may wish to continue at another institution in a doctoral program. The receiving institution will determine the applicability of course work taken toward partial fulfillment of a doctoral program.

Admission and Degree Requirements

Applicants for admission to study in the Ed.S. program should be made to the Director of Admissions, University of Omaha (see Admissions). In general, the applicant:

1. Must hold a Master's degree from an accredited institution offering graduate work.
2. Must have had successful teaching experience and provide letters of recommendation from principals, supervisors, or superintendents with whom he has taught.
3. Must be approved for admission to the program by the department head and the Graduate Dean.
4. Must submit the results of the Graduate Record Examination with the application for admission.

Before the applicant is accepted as a candidate in the degree program, he must be recommended by a graduate faculty advisory committee which will base its recommendations on:

1. A personal interview.
2. An evaluation of the applicant's general educational and professional qualifications to undertake the proposed program.
3. The results of the Graduate Record Examination.
4. A review of the applicant's proposed plan of study including courses, practicums and seminars, and work completed.
5. Prerequisite or deficiency courses which must be completed, if necessary, before the student may be accepted into the program.

The candidate will be notified in writing concerning his admission to the program.

CANDIDACY FOR DEGREE

Permission to enter the program does not automatically designate the applicant as a candidate for the Ed.S. degree. Before filing an application for degree candidacy, the student must complete twelve semester hours of course work, including work in statistics and research methods. For those students with statistics and research methods in their Master's program, substitutes may be made.

After a review of his early course work the candidate's committee will recommend to the Graduate Faculty which will make the decision concerning the applicant's candidacy for the degree. The applicant will be notified in writing by the Graduate Office of the decision of the Graduate Faculty. A permanent plan of study will be filed by the committee with the Graduate Office at the time of admission to candidacy.

Immediately after acceptance for candidacy, the student will file in the Graduate Office a tentative topic for his field project. This field project will be an independent study of a specific school-related problem. The subject of the study must be approved by the student's faculty committee and the Graduate Dean immediately after the candidate has been approved for candidacy for the degree. The student must continue to report the progress of the field study to the Graduate Office each semester. Failure to report progress may result in loss of the topic and the student may be dropped from the program.

The student must also be enrolled for course work each semester after admission or submit in writing to the Graduate Dean the reasons why such enrollment cannot be made. If the student is not enrolled for course work for two consecutive semesters or summer terms, he shall be dropped from the program and must apply for readmission by petition to the Graduate Faculty. Regular attendance assures a desirable rate of progress and also assures that quality in a program which comes by way of acquaintance and interaction.

All work for the Ed.S. degree, including the field project report, must be completed within a period of six years from the time of first admission to the program. Upon completion of the field project, which will be done under the direction of the faculty committee, the student will submit three typewritten copies to the Graduate Office. This project must generally conform to the style prescribed by the Graduate College.

A final oral examination will be required over the field project. The examining group shall be the candidate's committee and the Graduate Dean or his representative.

SPECIALIST IN EDUCATION DEGREE

A MAJOR IN SCHOOL ADMINISTRATION

66 Hours Minimum

This outlined program includes the work which might typically constitute the fifth and sixth years of collegiate work. The total course work for both M.S. and Ed.S. would accumulate to no less than 66
graduate hours. The program reflects the philosophy which supports graduate education at Omaha University that each student should be able to design a considerable portion of his program to best harmonize his needs and ambitions. Each program will be designed with the aid of the student's adviser and must be approved by the candidate's committee.

The program has been designed to include the flexibility needed by two groups of students: (1) those preparing to become school principals; (2) those preparing to become school superintendents. The capstones of the EDS program are the administration seminars (Ed. 660 and 661) and the final project (Ed. 611).

II. PROGRAM FOR SCHOOL PSYCHOLOGISTS

Students holding Master's degrees may be admitted to do additional work leading to recommendation for certification as a school psychologist if they show promise of ability to succeed beyond the Master's level. Application for such admission must be made in writing to the Director of Admissions, accompanied by credentials and an application fee. Credentials must include two official transcripts for all previous college work, scores for the Graduate Record Examination Aptitude Test and Psychology Test, and a vita including names of individuals willing to write reference letters. Before a final decision is made concerning admission, the applicant must be interviewed by the Chairman and one or more members of the Department of Psychology. If the applicant has not completed a Master's program equivalent to that required for the Master of Science in Educational Psychology, he may be required either to take additional graduate courses or to complete successfully a six-hour qualifying examination in general and educational psychology.

A total of 30 semester hours of work beyond the Master's is required for the recommendation. No more than three hours of practicum credit should be taken during any one semester. In addition to completing 30 hours of study, students must be eligible for teacher certification at the bachelor's level or they must have two years of successful school experience. Students will be expected to plan their programs as follows:

1. Psychological Foundations

   Required: three of the following:
   - Psych 521, General Experimental Psychology
   - Psych 523, General Experimental Psychology
   - Psych 524, General Experimental Psychology
   - Psych 547, Counseling Theory
   - Psych 555, Learning Theory
   - Psych 545, Experimental Social Psychology

   Required: 12 hours
   - Psych 535, Introduction to Therapeutic Techniques with Children
   - Psych 563, Prevention in Psychology (five or six hours)

   One or two of the following:
   - Psych 463, Programmed Instruction
   - Psych 514, Nonparametric Statistics
   - Psych 515, Factor Analysis
   - Psych 516, Analysis of Variance
   - Psych 522, Tests and Measurements
   - Ed. 523, Individual Analysis
   - Ed. 524, Counseling Practice

   Required: 3 of the following:
   - Sped. 443, Speech Pathology: Voice and Articulation
   - Sped. 444, Speech Pathology: Articulation and Symbolization
   - Sped. 462, Teaching the Exceptional Child
   - Sped. 463, Teaching the Exceptionally Gifted
   - Sped. 464, Teaching the Educable Mentally Retarded
   - Ed. 511, Teaching Reading - Elementary
   - Ed. 524, Counseling Practice
COURSE DESCRIPTIONS

Key to symbols:
- I — offered in the first semester of each year
- II — offered in the second semester of each year
- S — offered in the summer session
- E — offered only as an evening class at irregular intervals

Courses numbered 500 or above are open to graduate students only. Some courses numbered 100 are offered to both seniors and graduates; the same is true of a selected few 300 numbered courses. It is expected that graduate students enrolled in those courses numbered 300-400 will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.

BIOLoGY

334 Ecology: The study of the behavior of whole organisms and groups of organisms in relation to their total living and subsisting environment. PREREQ: Biol. 144 and Biol. 174 (1) 4 hours

343 Morphology of Lower Plants: A lecture and laboratory course covering the morphology, evolution, and ecological trends of algae, fungi, and Bryophyta. PREREQ: Biol. 145 (1) 3 hours

350 Morphology of Higher Plants: A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends. PREREQ: Biol. 146 (II) 3 hours

360 Plant Anatomy: A study of the tissues, organs, and vascular plants with emphasis on internal structure. PREREQ: one year general botany (ILS) 3 hours

374 Histology: The microscopic study of tissues and organs and their functional significance. PREREQ: A course in anatomy (1,8) 4 hours

384 Embryology: An intensive study of the embryology and development of the vertebrate animal, particularly the human, from gametogenesis to organogenesis. PREREQ: Biol. 175 and 385 (II) 4 hours

414 Cellular Biology: A comprehensive study of the structure and function of plants and animals. PREREQ: Mammalian anatomy or plant morphology or plant anatomy; organic chemistry, physics (1) 4 hours

425 Organic Evolution: A study of organic evolution in terms of evidence which supports the theory and the mechanisms involved in the process. PREREQ: Genetics (Biol. 316) (II) 3 hours

444 Plant Physiology: A study of plant processes and functions with emphasis on photosynthesis, respiration, mineral nutrition, and morphogenesis; lecture and laboratory. PREREQ: one year of organic chemistry, physics, math, botany (11) 4 hours
520 Accounting for Management Control (I,II) 3 hours

521 Contemporary Accounting 3 hours

520 The Environment of Management (I) 3 hours

531 Human Relations (II) 3 hours

540 Marketing Policies (I) 3 hours

541 Promotional Policies (II) 2-3 hours

550 Financial Management (II) 3 hours

551 Security Analysis (II) 2-3 hours

552 Seminar in Investment Management 2-3 hours

CHEMISTRY

340 Physical Chemistry: The study of the physical properties of chemical systems as an aid to the native of chemical substances.
PREREQ: Chem. 230, 214; phys. 212, math. 102 or 224 (I,II) each 4 hours

361 Instrumental and Advanced Quantitative Analysis: The application of instrumental techniques to the quantitative analysis of unknown substances.
PREREQ: Chem. 340, 350 (I) 4 hours

410 Advanced Inorganic Chemistry: An introduction to modern inorganic chemistry based on theoretical physical principles.
PREREQ: Chem. 350 (may be taken concurrently) (II) 3 hours

411 Advanced Inorganic Preparations: Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques.
PREREQ: Chem. 410 (II) 1 hour

423 Advanced Organic Chemistry: An advanced lecture course in modern theories and special topics in organic chemistry.
PREREQ: Chem. 214 (Taught in 1967 and alternate years) (I) 3 hours

ECONOMICS

411 Government and Labor: Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government, and the relationship of the various levels of government to labor.
PREREQ: Econ. 316 (II) 3 hours

418 Collective Bargaining: A study of the issues, structures and procedures involved in collective bargaining, and the settlement of disputes, as center around the labor-management contract.
PREREQ: Econ. 316 (I) 3 hours

421 Advanced Firm & Industry Theory: The effects of changes in conditions of supply and demand under alternative market structures affecting firm and industry are examined. General equilibrium and welfare economies are introduced.
PREREQ: Econ. 320 or permission (II) 3 hours

423 Advanced Macro Theory: A study of the level of income, production, unemployment, and growth. Classical and Keynesian systems are contrasted, with recent theoretical paths being explored.
PREREQ: Econ. 322 or permission (I) 3 hours

425 History of Economic Thought: From Mercantilism to the modern period. Focus is on the interactions of institutional, political and economic doctrine.
PREREQ: Econ. 201 and 202 (I) 3 hours

426 Comparative Economic Philosophy: The mainstreams of political and economic philosophy are examined in order to understand both the political basis of comparative economic systems as well as to judge the political consequences of changing economic policy.
PREREQ: Nine hours of Economics or permission (I) 3 hours

424 Identification of Organic Compounds: A laboratory course in the systematic identification of organic compounds.
PREREQ: Three years of college chemistry including Chem. 214 (II) 3 hours

458 Biochemistry: A study of the chemistry of living systems.
PREREQ: Chem. 214, 403 prereq to 404 (I,II) 4 hours

459 Problems in Chemistry: A special problem course in which the student, through laboratory work and literature review, gains experience in doing fundamental chemical research.
PREREQ: Three years of chemistry and permission of instructor (I,II,III) credit arranged

503 Research in Chemistry: PREREQ: permission of instructor (I,II,III) credit arranged

PREREQ: Chem. 110 and 120 (I) each 4 hours

550 Quantitative Analysis: The integration of chemical principles with the practice of the separation and determination of the inorganic constituents of various materials; intended primarily for the teachers of chemistry.
PREREQ: Chem. 120 (I) 4 hours
445 Monetary Theory and Policy: The role of money in the stabilization at high levels, production, employment, income and prices. Emphasis is on contemporary problems.
PREREQ: Econ. 345 (I) 3 hours

456 State and Local Finance: Economic and administrative problems of state and local taxation, with particular attention to Nebraska and Omaha, are studied.
PREREQ: Econ. 356 or permission (II) 3 hours

456 International Economic Development: Problems relating to early stages of economic development; investment priorities, mobilizing savings, balance of payments considerations; and policies and programs are studied.
PREREQ: Econ. 365 or permission (III) 3 hours

545 Seminar in Money and Banking: Original research and writing of papers on basic problems in the area of money and banking, required of all Economics majors at the graduate level.
PREREQ: Six hours in undergraduate monetary courses or permission (I) 3 hours

545 Seminar in International Economics: Original research and critique of current issues in international economic theory, policy and institutions.
PREREQ: Econ. 365 or 406, or permission of the instructor (II) 3 hours

418 Mental Health (S) 3 hours
A general survey of principles of mental health; a study of social and emotional adjustments.

461 Principles of Adult Education (I,II,S) 3 hours
This course is an introduction to the study of adult education as a major development in contemporary America. The course surveys the major forms and problems of adult education and the foremost agencies providing programs.

452 Adult Group Leadership (II) 3 hours
A study of adult groups in modern society and the characteristics of effective leadership in all types of groups.

466 Audio-Visual Materials in Education (I,II,S) 3 hours
The selection, use, organization and utilization of materials and equipment of instruction.

467 Audio-Visual Aids Production (I,II,S) 3 hours
A basic course in the production of inexpensive audio-visual materials for the classroom. Graphical, photographic and auditory materials are considered, including such instructional material as slides, films, dramatization and exhibits.

501 Special Studies (I,II,S) 3 hours
A series of intensive courses especially for teachers in service—scheduled as regular seminars, or workshops, according to purpose.

501 Introduction to Research (I,II,S) 3 hours
To acquaint the beginning graduate student with the nature and significance of research; to enable the student to read, evaluate, and apply research results and techniques; to give some understanding of the meaning and spirit of research; to give some experience in studying and preparing research reports.

502 History and Philosophy of Education (I,II,S) 3 hours
A survey of the rise of educational practice as it has been interrelated with changes in social and educational philosophy, research, and economic, industrial and cultural conditions, especially in the United States.

504 Comparative Education (I,II,S) 3 hours
To acquaint students with education philosophies and programs in selected countries; to identify changes in programs of countries; to compare programs in education of other countries with the situation in the United States.

505 Seminar in Education (I,II,S) 3 hours
Research of problems in education which are of current significance (or of historical, philosophical or psychological backgrounds in education).

506 Education and Society (II) 3 hours
To provide an opportunity for teachers to develop an understanding of certain selected contemporary affairs which have an influence upon society.

507 Statistical Methods (I,II,S) 3 hours
This course was designed for first year graduate students in education who have not had a previous course in statistics or whose background is such that a refresher course is desired.
48 UNIVERSITY OF OMAHA

508 Topics in Audio-Visual Education (I1,5) 3 hours
A study of selected topics involving principles, problems, trends and materials in audio-visual education.

510 Research Project Individual or group study and analysis of specific problems in schools.

501 Thesis Independent research project written under the supervision of an advisor.

Elementary

420 Literature for Children and Youth (I1,5) 3 hours
Selection, evaluation and guidance in various types of literature for the elementary and junior high school levels.

420 Diagnostic and Remedial Instruction (I1,5) 3 hours
A study of methods of diagnosing children’s difficulties in all subject areas of the educational program of the elementary school and remedial techniques for overcoming such problems.

541 Modern Developments in the Tool Subject - Elementary (I1,5) 3 hours
An advanced study of the tool subjects, or the “Three Rs”, in the elementary schools. The tool subjects include arithmetic and the language arts, or communication skills - reading, spelling, oral and written English, manuscript and cursive writing, and listening.

542 Modern Development in the Content Subjects - Elementary (I1,5) 3 hours
Designed for the graduate student who is desirous of exploring in depth the current trends and developments within the content subjects of the elementary school.

543 Curriculum Planning - Elementary (I1,5) 3 hours
A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate content and methods of curriculum reorganization.

544 Co-operating Teachers Seminar - Elementary (I1,5) 3 hours
For selected cooperating teachers. Student teaching in general, new trends and developments; and the University of Omaha student teaching program in particular. By invitation only.

Secondary

480 Principles of Vocational Education (I1,5) 3 hours
A study of the basic philosophy underlying vocational education and the principles and practices in the various fields.

485 Coordination Techniques for Vocational Education (I1,5) 3 hours
Reviews responsibilities and techniques of coordination for the vocational teacher-coordinator and/or vocational coordinator, with special emphasis upon local administration of the part-time cooperative program and analysis of the laws and regulations governing this program.

533 Curriculum Planning - Secondary (I1,5) 3 hours
Designed to provide the student with understanding of the nature and trends in secondary school curriculum development, and the principles and practices in curriculum planning.

534 Improvement of Secondary School Instruction (I1,5) 3 hours
A study of the secondary school in light of the nature and needs of the adolescent child and in relation to the goals of education, with implications for teachers, counselors and administrators. Emphasis will be placed on instructional procedure, curriculum, and classroom management.

535 Co-operating Teachers Seminar - Secondary (I1,5) 3 hours
A study of principles and procedures in student teaching programs. Intended for certified teachers who are, or wish to be, working with student teachers in secondary schools.

537 Junior High School Curriculum Planning (I1,5) 3 hours
This course is designed to acquaint the graduate student with the development of curriculum in the junior high school with particular emphasis given to the core curriculum.

553 Problems of Business Education (I1,5) 3 hours
Designed for teachers of business education to develop a better understanding of the purposes, philosophy, current practices and trends in business education.

Guidance and Counseling

520 Principles of Guidance (I1,5) 3 hours
Principles underlying effective guidance and counseling practices in the United States and also includes a consideration at the various guidance services.

521 Organization and Administration of Guidance (I1,5) 3 hours
Selection and training of personnel; organization and administration of the program; adjustment to changing conditions.

522 Occupational and Educational Information (I1,5) 3 hours
The nature and use of vocational and educational information. The process of vocational choice.

523 Individual Analysis (I1,5) 3 hours
Methods and procedures of identifying each person as a unique individual.

524 Counseling Practices (I1,5) 3 hours
An analysis of the theories and practices of counseling.

525 Practicum in Guidance and Counseling (I1,5) 3 hours
The initiation and development of practices designed to provide information and techniques for individual group and classroom counseling.

526 Guidance in the Elementary School (I1,5) 3 hours
A study of the principles, practices and dimensions of elementary school guidance.

527 Group Techniques in Guidance (I1,5) 3 hours
The role of group procedures in guidance. The implementation and evaluation of group procedures.
School Administration

535 Administration and Supervision of the Junior High School
(II,S) 3 hours
This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.

562 Principles of School Administration
(II,S) 3 hours
A study of the nature of school organization and administration, including the inter-relationship between the federal, state, and local responsibilities.

563 School Plant Planning and Operation
(II,S) 3 hours
Includes steps in planning the modern school building: site selection, building construction and design; school furniture and equipment; maintenance and operation; rehabilitation; scheduling of work; and custodial care.

564 School Law
(II,S) 3 hours
Consider legal principles and practices which are applicable to public education for public school teachers and administrators.

595 School Business Management
(II,S) 3 hours
An analysis of the functions of business management: budgetary procedures; financial accounting, auditing and reporting; management of funds; purchasing procedures and inventory; administration and protection of property; and administration of transportation.

565 Administration and Supervision in Elementary Schools
(II,S) 3 hours
The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.

566 Administration and Supervision in Secondary Schools
(II,S) 3 hours
The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.

568 School Finance
(II,S) 3 hours
A study of the sources of school financing: local, state and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance.

570 Practicum in School Administration
(II,S) 3 hours
Designed to provide guided study and practice in elementary, secondary or general administration and supervision as the interests and needs of the student require.

575 Administration of Higher Education
(II,S) 3 hours
A study of the major functions of higher education, with emphasis on the principles involved in organizing and directing the academic program, the activities of the student body, the faculty and staff, personnel policies, financing the program, operating the buildings and grounds and conducting the public relations program.

576 College Business Management
(II,S) 2-4 hours
Designed as an intensive study of problems of college business management, including such phases as: public relations, personnel, accounting and reporting, physical plant, law, auxiliary enterprises.

Special Education

410 Teaching of Speech to the Deaf I
(II,S) 2 hours
Methods and procedures in teaching speech to the deaf; emphasis on auditory, visual and tactile techniques.

412 Teaching of Speech to the Deaf II
(II,S) 2 hours
Continuation of Special Education 411; focus on various types of speech learning problems found in a special population of deaf children.

423 Teaching of Language to the Deaf I
(II,S) 2 hours
Philosophy of development of functional language for the deaf child; methods and materials for developing English language skills and comprehension.

424 Teaching of Language to the Deaf II
(II,S) 2 hours
Continuation of Special Education 423; focus on criteria for selection and utilization of teaching materials; special emphasis on reading problems.

450 Observations and Student Teaching
(II,S) 3-6 hours
An experience with schools and classes for the deaf for qualified students to complete student teaching during the school year; activities as well as classroom experiences encouraged.

451 Methods of Teaching Speech Reading to the Deaf
(II,S) 2 hours
History of development of speech (lip) reading; methods and approaches in teaching speech reading for various ages and degrees of hearing impairment.

452 Teaching Elementary Subjects to the Deaf I
(II,S) 2 hours
Philosophy underlying formal education of the deaf; methods and special adaptations used in presenting school subjects, preparing lesson plans for deaf classes.

453 Teaching Elementary Subjects to the Deaf II
(II,S) 2 hours
Continuation of problems in deaf education; approaches to elementary school subjects considered in detail.
513 Diagnostic and Remedial Instruction in Reading ..... (I, S) 3 hours
A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediability of reading disabilities.

514 Individual Analysis of Reading Difficulties ..... (1) 3 hours
A course for advanced students in reading which will provide the student with the necessary training for establishing and operating a reading clinic (i.e., initiating and accepting referrals, forming evaluation schedules, administering appropriate evaluative devices, writing case reports and establishing follow-up sessions).

515 Clinical Practice in Reading ..... (II, S) 3 hours
A laboratory-oriented course for advanced students in reading which will provide them with practical training in the use of proper remedial reading techniques in order that they might qualify as specialists in remedial reading.

PREREQ: Permission

516 Seminar in Special Education ..... (II) 3 hours
Graduate course primarily for Special Education majors and professional workers in the fields of speech and hearing, teaching the deaf, teaching the mentally retarded, remedial reading and teaching the physically handicapped. Familiarity with philosophy, major literature and practices in each area; student will research and present a paper reflecting his personal professional interests. Discussions, forums, and panels; visiting experts.

ENGINEERING

432 Hydraulic Engineering ..... 3 hours
PREREQ: CE 431 - Fluid Mechanics
A study of the control and utilization of the natural water of the earth, basic mechanics of solids and fluids to the solution of hydraulic problems. Hydrologic, legal and economic considerations.

444 Theory of Structures III ..... 3 hours
PREREQ: CE 443
Theory and application of analytic methods in the consideration and design of industrial buildings, residential buildings, space frames and arches.

445 Engineering Systems and Analogies ..... 3 hours
PREREQ: Math 226 - Advanced Math for Engineers
Egg 332 - Engineering Analysis
The formulation and solution of the mathematical model and engineering analogies for applications to system analysis.

516 Soil Mechanics ..... (1) 3 hours
PREREQ: Senior standing and permission of instructor
Index properties and classification systems of soils, permeability, frost action, compaction, stress-strain characteristics, consolidation, shearing resistance, drainage and stabilization, bearing capacity and settlement, sub-surface investigations, character of natural deposits.

470 Pre-Stress Concrete ..... (II) 3 hours
PREREQ: CE 447
Materials for prestressing, systems, economic considerations, loss of prestress, friction effects, analysis and design of sections for flexure, shear and bond, beam deflections on numerical analysis, partial prestress and non-prestressed reinforcement, continuous beams, load balancing method, prestressed slab design, composite construction.

481 Plastic Design ..... (I) 3 hours
PREREQ: CE 443 or permission

542 Limit Design ..... (II) 3 hours
PREREQ: CE 441
Criteria for the plastic collapse of structures, limit design applied to continuous beams, rigid frames, and component parts. Introduction to dynamic resistance of structures.

543 Advanced Structural Analysis ..... 3 hours
PREREQ: Egg 342 - Strength of Materials
Egg 341 - Laboratory

590 Structural Design for Dynamic Loads ..... (I) 3 hours
PREREQ: Graduate standing and permission
Behavior of structural materials and systems under dynamic loads. Computational techniques.

564 Special Engineering Problems ..... 1-6 hours
PREREQ: Graduate standing and permission from the instructor.
The theory and application of the accumulated knowledge from undergraduate and graduate course work to a special problem of particular interest to the student and in his field of interest. These problems should extend the knowledge and understanding of the student in the field of his specialty beyond the limits of his course work.

561 Thin Shell Structures ..... (II) 3 hours
PREREQ: Graduate standing and permission
General theory of thin shells: analysis and design of hyperbolic paraboloids, folded plates, cylindrical shells, shell walls, and domes.

503 Foundation Engineering ..... (II) 3-6 hours
PREREQ: Graduate standing and permission of instructor
Evaluation of subsurface conditions as they affect the behavior, proportions, and selection of foundation elements; character of natural soil deposits; bearing capacity and settlement analysis; seepage problems; stability of slopes and earth-retaining structures.

516 Advanced Structural Engineering ..... (II) 1-12 hours
PREREQ: Graduate standing and permission
Contemporary developments in the analysis and design of space-gracing and space-enclosing structures, including appropriate mathematical and mechanical methods of analysis.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>433</td>
<td>Sixteenth Century Literature (I) 3 hours</td>
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<td></td>
<td>Poetry and prose of the English Renaissance, from its continental origins to</td>
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<td>the end of the Elizabethan Age.</td>
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<td>434</td>
<td>Chaucer (I) 3 hours</td>
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<td></td>
<td>A study of the language and writing of Chaucer, with emphasis on The</td>
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<td></td>
<td>Canterbury Tales.</td>
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<td>440</td>
<td>Eighteenth Century Literature (II) 3 hours</td>
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<td></td>
<td>Readings in the major authors of the Age of Pope and the Age of Johnson.</td>
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<td>PREREQ: Eng 231 or 232</td>
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<tr>
<td>445</td>
<td>Seventeenth Century Literature (I) 3 hours</td>
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<td></td>
<td>A study of the English poetry and prose of the seventeenth century (with</td>
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<td></td>
<td>emphasis on Milton), and the drama of the Restoration.</td>
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<td>PREREQ: Eng 232</td>
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<td>459</td>
<td>English Drama before 1642 (S) 3 hours</td>
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<td>A study of the development of the English drama, exclusive of Shakespeare,</td>
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<td>from the beginnings to 1642.</td>
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<td>PREREQ: Eng 231</td>
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<tr>
<td>458</td>
<td>Structural Linguistics (S) 3 hours</td>
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<td>An analysis of the English language as it is spoken, with the end view of</td>
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<td>gaining better understanding of the language and how to make it work</td>
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<td>most effectively.</td>
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<td>PREREQ: Graduate or permission</td>
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<tr>
<td>460</td>
<td>Shakespeare (II) 3 hours</td>
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<td>A critical study of twelve major plays of Shakespeare.</td>
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<td>465</td>
<td>The English Novel (III) 3 hours</td>
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<td></td>
<td>The development of the English novel from the beginning to the end of the</td>
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<td></td>
<td>Victorian period.</td>
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<td>466</td>
<td>History of the English Language (E) 3 hours</td>
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<td></td>
<td>A study of the internal and external forces which have influenced the</td>
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<td>development of the English language.</td>
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<td>PREREQ: Eng 353 or permission</td>
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<tr>
<td>472</td>
<td>Medieval English Literature (III) 3 hours</td>
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<td>A survey of the principal writings in English, excluding those of</td>
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<td>Chaucer, from 1100 to 1500.</td>
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<td>PREREQ: Eng 231</td>
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<td>481</td>
<td>Literature of the Romantic Period (I) 3 hours</td>
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<td></td>
<td>Poetry and prose (excluding the novel) of England from 1798 to 1830.</td>
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<td>482</td>
<td>Literature of the Victorian Period (I) 3 hours</td>
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<td></td>
<td>Poetry and prose (excluding the novel) of England from 1830 to 1900.</td>
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<td>487</td>
<td>The American Novel (II) 3 hours</td>
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<td></td>
<td>The major American novelists from Hawthorne to the present.</td>
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<td>488</td>
<td>The American Drama (II) 3 hours</td>
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<td></td>
<td>A general view of the history of the drama and theatre in the United States,</td>
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<td>especially as related to the main currents of American thought. The</td>
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<td>following are all seminar courses:</td>
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<tr>
<td>502</td>
<td>Romanticism and Realism (III) 3 hours</td>
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<td></td>
<td>Studies in English and American literature of the nineteenth and twentieth</td>
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<td>centuries.</td>
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**ENGLISH**

**Prerequisite:**

- History of the English Language (E)
- Medieval English Literature (II)
- Literature of the Nineteenth and Twentieth Centuries (II)

**Literary Criticism (I) 3 hours**

- Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth century England and twentieth century America.

**American Literature (II) 3 hours**

- An analytical study of the major literary movements in nineteenth and twentieth century America as they are expressed in poetry, fiction, drama, and criticism.

**Seminar in the English Renaissance (I) 3 hours**

- Analysis of selected literary figures of the English Renaissance.

**Victorian Literature (II) 3 hours**

- Intensive study of selected nineteenth century English authors and their works.

**Shakespeare: Critical analysis of ten tragedies or ten comedies of Shakespeare.**

**English Literature, 1750-1830 (II) 3 hours**

- Studies in the transitions between English Literature of the Age of Johnson and that of the Age of Wordsworth.

**Seminar in Medieval Literature (I) 3 hours**

- A study of the rationale and techniques of medieval allegory.

**ENGLISH OF THE NINETEENTH AND TWENTIETH CENTURIES**

- PREREQ: Graduate standing and English 434 (Chaucer) or English 472 (Medieval English Literature)

**FOREIGN LANGUAGES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>313</td>
<td>Conversation and Composition (I) 3 hours</td>
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<td>PREREQ: French 212 or permission</td>
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<tr>
<td>315</td>
<td>Introduction to French Literature (I) 3 hours</td>
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<td>316</td>
<td>Readings of French authors from the Middle Ages to 1800; lectures, reports,</td>
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<td>collateral readings.</td>
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<td>335</td>
<td>Advanced Conversation and Composition</td>
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<td>PREREQ: French 213 or permission</td>
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<tr>
<td>338</td>
<td>French Civilization (I) 3 hours</td>
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<td>PREREQ: French 212</td>
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<tr>
<td></td>
<td>Study of contemporary modes of life and</td>
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<td>thought in France.</td>
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<td>340</td>
<td>Eighteenth Century French Literature</td>
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<td></td>
<td>PREREQ: French 212</td>
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<td></td>
<td>Study of the Enlightenment, emphasizing</td>
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<td></td>
<td>the works of Montesquieu, Voltaire,</td>
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<td></td>
<td>Rousseau and Diderot.</td>
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<td>351</td>
<td>Nineteenth Century French Literature</td>
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<td></td>
<td>PREREQ: French 212</td>
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<td></td>
<td>From 1789 to 1948, Lamartine to Michelet,</td>
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<td>Stendhal, Hermitage, Balsac, Hugo.</td>
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<td>362</td>
<td>Sixteenth Century French Literature</td>
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<tr>
<td></td>
<td>PREREQ: Any 100 course in French literature,</td>
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<td>Literature of the Renaissance, Rabelais,</td>
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<td>Ronsard, Montaigne.</td>
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</table>
431 Seventeenth Century French Literature (I) 3 hours
PREREQ: Any 300 course in French literature.
The Classical School, Descartes, Pascal, Corneille, Moliere, Racine, LaFontaine.

451 Twentieth Century French Literature (II) 3 hours
PREREQ: Any 300 course in French literature.
Main currents of twentieth century literature from the beginning to 1950.

452 Twentieth Century French Literature (III) 3 hours
PREREQ: Any 300 course in French literature.
Continuation of the study of this century to current literary production.

460 Seminar (II) 3 hours
PREREQ: Permission
A detailed study of narrower phases of French literature, language or culture.

German

313 Conversation and Composition (I) 3 hours
PREREQ: German 212 or permission
Idioms, patterns of conversation and composition.

347 German Civilization (III) 3 hours
PREREQ: German 313 or permission
Study of German history, art, architecture, customs, philosophy and literature.

440 German Novelle (II) 3 hours
PREREQ: German 313 or permission
Survey of the German short story, its historical origin, characteristics.

444 German Drama (I) 3 hours
PREREQ: German 331 or permission
Study of several of the better-known dramas, history of drama development in Germany.

452 German Literature Since 1800 (II) 3 hours
PREREQ: German 313 or permission
Survey of most important works since 1800.

456 Goethe (II) 3 hours
PREREQ: Permission
Goethe's life and works, discussion of his literary techniques, his importance and influence.

Spanish

318 Conversation and Composition (I) 4 hours
PREREQ: Span 212 or permission
Oral practice, grammar review, composition.

319 Survey of Spanish Literature (II) 3 hours
PREREQ: Span 212
Introductory study of Spanish masterpieces beginning with the 2nd Cen. to the Generation of 70s.

341 Spanish Civilization (II) 3 hours
PREREQ: Span 212 or permission
Development of culture and institutions from the origins to the present.

342 Latin American Civilization (I) 3 hours
PREREQ: Span 212 or permission
Development beginning with growth of the colonies through revolutions for independence.

355 Modern Drama of Spain (II) 3 hours
PREREQ: Span 313 or permission
Idiologies, techniques, trends and influence of modern dramatists of Spain.

356 Modern Novel of Spain (II) 3 hours
PREREQ: 3 hours
Literary movements and influences of foremost modern novelists from Galdos to Blasco-Ibanez.

415 Spanish American Literature of the 19th Century (I) 3 hours
PREREQ: 3 hours
Detailed study of literature during period of struggle for independence to the beginnings of Modernism.

416 Spanish American Literature of the 20th Century (I) 3 hours
Study of foremost Spanish American writers and their influences during the period of Moderatism and Realism to the present.
PREREQ: Spanish 316 or permission

420 Spanish American Novel (II) 3 hours
PREREQ: Span 316 or permission
Study of the foremost Spanish American novelists and their influences with special emphasis on the authors of the Revolutionary period.

421 Spanish Writers of the Golden Age (III) 3 hours
PREREQ: Span 315 or permission
Outstanding classic writers and their influence of the sixteenth and early seventeenth centuries.

424 Generation of '98 (III) 3 hours
PREREQ: Span 311 or permission
Unamuno, Pardo Bazan, Valle-Inclan and Pereda de Ayala and their examination of the Spanish status quo at the turn of the century.

430 Cervantes (I) 3 hours
PREREQ: Permission
Study of Don Quixote and/or the Exemplary novels.

460 Seminar (II) 1-3 hours
PREREQ: Permission
A detailed study of narrower phases of Spanish, or Spanish American literature, language or culture.

GEOGRAPHY

412 Urban Geography (I) 3 hours
A course of study in the geography of urban places and the underlying forces of urbanization, with special reference to the history of urbanization, site and situation, external relations, internal function and form, and comparative urban studies.

425 Great Plains and Nebraska (III) 3 hours
A systematic geographical study of the natural and cultural elements giving regional character to this region.

432 Climates of the World (II) 3 hours
PREREQ: Geog. 254
Surveys the climates of the continents in terms of climatic controls and generalized climatic sub-regions.

443 Geography of Manufacturing (II) 3 hours
PREREQ: Geog. 313 or Econ. 201 and 202.
A course which discusses methods of measurement and classification, as well as the function of manufacturing; major manufacturing regions in the U.S.; and local community patterns.
501 Historical Geography of the United States (I) 3 hours
PREREQ: Hist. 111 and 112
A study of sequential occupancy in the United States with emphasis on the formative periods.

502 Geography Concepts (II, III) 3 hours
Development of the systematic fields and regional approach to area inventory and planning; introduction to visualizing data and introduction to authorities in each field.

503 Physical and Cultural Geography for Teachers 6 hours
Orientation through discussion and demonstration and projects to physical and cultural geography; involvement in professional geography journals and associated media suitable for geography presentations.

504 Cultural Geography 3 hours
The philosophical basis of human and cultural geography; interpretation of the cultural landscape.

521 Geography of Agriculture 3 hours
A systematic study of the characteristics of agriculture (both crop and pastoral industries) on a world-wide basis.

522 Seminar in Problems of Political Geography 3 hours
Case studies in land boundaries, territorial waters, and in population aspects of boundary problems.

554 Geomorphology 3 hours
PREREQ: Geog. 254
Concentrates on significant topics, problems, and applied cases in landform studies.

555 Physiography of North America 3 hours
PREREQ: Geog. 254
A study of the landforms regions of North America as related to the whole study of geography by means of a systematic analysis of geomorphic patterns.

556 Soils 3 hours
A synthesis of the concepts of the morphology, classification, and distribution of soils with some emphasis on environment and genesis.

557 Field Geography 3 hours
A systematic discussion of techniques for studying and analyzing terrain features, land use characteristics, and the nature of their patterns as a part of the whole geographic environment.

558 Land Use 3 hours
A field course designed to investigate and understand through field work, land use patterns in urban and rural areas by studying the social, physical, and economic factors which tend to shape the land use of a given place.

561 Cartographic Methods 3 hours
PREREQ: Geog. 254
Teaches the student proper use of drawing instruments, effective map layout and exposure to the latest cartographic techniques, leading to a high level of competence in the design and interpretation of maps.

571 Population Seminar 3 hours
The significance of differences from place to place in the number, kind, and quality of human inhabitants, and changes through time.

574 Urban Seminar in Metropolitan Planning and Development 3 hours
An overview of the present status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and problems of annexations.

591 General Seminar 1 hour
Review of current research by geographers including national and international associations and initial thesis proposal.

592 Thesis 3 hours
Independent research project written under the supervision of an adviser.
451 Intellectual History of Modern Europe: Seventeenth and Eighteenth Centuries (I) 3 hours
PREREQ: Hist. 151 and 152

452 Intellectual History of Modern Europe: The Revolutionary Age to the Present (II) 3 hours
PREREQ: Hist. 151 and 152

453 Age of the Reformation (II) 3 hours
PREREQ: Hist. 151 and 152
A study of European society during the critical years following the Renaissance.

454 The Age of Absolutism (I) 3 hours
PREREQ: Hist. 151 and 152
The emergence of new power relationships on the European Continent after the religious wars of the sixteenth century with an emphasis upon the political, military, and cultural factors that led to the French hegemony and the secularization of European politics.

455 Age of the Enlightenment (I) 3 hours
PREREQ: Hist. 151 and 152
A study of the politics, economics, and culture of eighteenth-century Europe and of the causes of the French Revolution.

456 The French Revolution and Napoleonic Era: 1789-1815 (I) 3 hours
PREREQ: Hist. 151 and 152
A study of Revolutionary France and the Napoleonic Empire as an integral part of the Age of Revolution with emphasis upon its causes, development, contributions and reason for the ultimate collapse of the Empire.

457 Nineteenth Century Europe, 1815-1870 (I) 3 hours
PREREQ: Hist. 151 and 152
An advanced study of what has happened in Europe since 1815 with a view to exposing the consequences of such events.

458 Nineteenth Century Europe, 1870-1914 (II) 3 hours
PREREQ: Hist. 451 or permission of instructor.
An advanced study of what has happened in Europe since 1870 with a view to exposing the consequences of such events.

459 Europe Since 1914 (II) 3 hours
PREREQ: Hist. 151 and 152
The First World War, problems arising from the Treaty of Versailles and the economic, political, and the social readjustments after 1920. Full attention will be given to the growing conflict of ideologies during the 1900-1920 period and to the resulting Second World War and its aftermath.

461 Tudor and Stuart England (II) 3 hours
PREREQ: Hist. 261 and 262 or Hist. 151 and 152
A study of England under the Tudors, when the English people rose magnificently and experienced a Golden Age, and the Stuarts then cast off the last remnants of medieval things and formed new institutions overshadowing those of our world of today.

462 England in the Eighteenth and Nineteenth Centuries (II) 3 hours
PREREQ: Hist. 261 and 262 or Hist. 151 and 152
A study of the change and development in Great Britain from 1714 to 1914.
### UNIVERSITY OF OMAHA

- **Mathematics Courses**
  - **Differential Equations** (311) 3 hours
    - **Prerequisites:** Math 211 or equivalent.
    - Methods of solving ordinary differential equations with applications to geometry and physics.
  - **Elementary Topics** (324) 3 hours
    - **Prerequisites:** Math 191 or equivalent.
    - The course contains elementary topics of interest selected from geometry, analysis, number theory, and point set topology and logic.
  - **Game Theory** (331) 3 hours
    - **Prerequisites:** Math 192 and 211 or equivalent.
    - Finite games, minimax theorem, optimal strategies, methods of solution of finite games; infinite games; applications.
  - **Probability and Statistics I** (353) 3 hours
    - **Prerequisites:** Math 192 or junior standing.
    - Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation, limit theorems, point estimation, the multivariate normal distribution, testing of statistical hypotheses, confidence intervals.
  - **Introduction to Topology** (360) 3 hours
    - **Prerequisites:** Math 192 and junior standing.
    - Theory of sets, topological spaces, metric spaces, topological properties.
  - **Abstract Algebra** (411) 3 hours
    - **Prerequisites:** Math 211 or equivalent.
    - An introduction to modern algebra; congruences, groups, fields, linear transformations and matrices.
  - **Mathematical Analysis** (423) 3 hours
    - **Prerequisites:** Math 225 or equivalent.
    - Topology of Euclidean space, continuity, differentiation, integration sequences and series.
  - **Complex Variables** (427) 3 hours
    - **Prerequisites:** Math 235 or Advanced Calculus.
    - Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continuation, singularities and representations of analytic functions.
  - **Theory of Ordinary Differential Equations** (429) 3 hours
    - **Prerequisites:** Math 311 (Differential Equations)
    - Power series solutions, Green's functions, existence and uniqueness theorems, plane autonomous systems, Sturm-Liouville systems, eigenfunction expansions.
  - **Operations Research** (433) 3 hours
    - **Prerequisites:** Math 311
    - Linear programming and properties, applications, Inversion integral, heat conduction problems, Sturm-Liouville systems, Fourier transforms.

### Computer Sciences

- **Advanced Programming Techniques** (322) 3 hours
  - **Prerequisites:** CS 170, Math 211 and CS 230.
  - The analysis and composition of advanced programs used with contemporary computers.

### Other Courses

- **Numerical Methods** (330) 3 hours
  - **Prerequisites:** Math 192, 211 and CS 230.
  - Solution of equations, polynomial approximation, difference calculus, interpolation, quadrature, initial value problems from ordinary differential equations and matrix inversion.

### Seminar Courses

- **Seminar in History** (551) 3 hours
  - **Prerequisites:** Level courses in History are open to students for independent research project written under the supervision of an advisor.

### University of Nebraska

- **Postgraduate Seminar in History** (556) 3 hours
  - **Prerequisites:** Level courses in History or equivalents.

### Additional Information

- The following 300-level courses in history are open to students for graduate credit with additional assignments: 312, 313, 315, 316, 333, 334, 341, 344, 351, 362, 364, 354, 355, 360.

- The following 300-level courses in history are open to students for graduate credit with special assignments: 311, 312, 313, 315, 316, 333, 334, 341, 354, 351, 353, 354, 355 and 364.

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**MATHMATICS**

**Computer Sciences**

- **Advanced Programming Techniques** (322) 3 hours
  - **Prerequisites:** CS 170, Math 211 and CS 230.
  - The analysis and composition of advanced programs used with contemporary computers.

- **Numerical Methods** (330) 3 hours
  - **Prerequisites:** Math 192, 211 and CS 230.
  - Solution of equations, polynomial approximation, difference calculus, interpolation, quadrature, initial value problems from ordinary differential equations and matrix inversion.

- **Introduction to the Theory of Information** (332) 3 hours
  - **Prerequisites:** Math 191, 211 and CS 230.
  - List processing languages, theories of file organization, theories of system design, information retrieval, applications.

- **Linear Programming** (430) 3 hours
  - **Prerequisites:** Matrix or Linear Algebra.
  - An introduction to linear programming and applications.

- **Introduction to System Programming** (432) 3 hours
  - **Prerequisites:** CS 322 or equivalent.
  - Input/output and storage systems, structures and transformations of data basis, assembly and executive systems.
Introduction to the Foundations of Mathematics (II) 3 hours
PREREQ: senior or graduate classification.
Logic, axiom systems, set theory, groups, the real number system, meta-mathematics.

511 Linear Algebra I
512 Linear Algebra II (I, II) each 3 hours
PREREQ: Math 411.
Vector spaces, linear transformations, theory of a single linear transformation, sets of linear transformations, bilinear forms, Euclidean space, unitary space, products of vector spaces.

523 Theory of Functions of Real Variables
524 Theory of Functions of Real Variables (I, II) each 3 hours
PREREQ: Math 423-424 or Advanced Calculus.
Real number system, convergence, continuity, bounded variation, differentiation, Lebesque-Stieljes integration, abstract measure theory, the Lp spaces.

555 Partial Differential Equations (II) 3 hours
PREREQ: Math 425.
Linear and nonlinear first order equations, self-adjoint elliptic equations, linear integral equations, eigenfunctions, and boundary value problems.

565 Differential Geometry (I) 3 hours
PREREQ: Math 425.
Differential manifolds, integral calculus on manifolds, Lie groups, differential geometry of Euclidean space.

598 Graduate Seminar (I, II) 1-3 hours
PREREQ: Permission of instructor.
A graduate seminar in mathematics.

691 Thesis
692 Thesis (I, II) each 3 hours
PREREQ: Permission of Department Head.

POLITICAL SCIENCE

403 The Presidency (I, II) 3 hours
The rise of the institution from Washington to the present, to the position and prestige it holds; and how the President uses this power and prestige to influence Congress, the courts, and the public.
PREREQ: 110, 111

404 The Legislative Process (I, II, S) 3 hours
A comprehensive study of the legislative process of Congress and state legislatures. The major emphasis is on legislative institutions, processes and behavior.
PREREQ: 110, 111

405 The Judicial Process (I, II) 3 hours
This is a course in the administration of justice. It examines the federal and state courts with respect to their powers, judicial selection, the bar, and the reform movements in the most basic of all of man's objectives, the pursuit of justice.

413 Comparative Governments; Emerging Areas (I, II, S) 3 hours
An examination and comparative analysis of the problems, structure, and function of government in the emerging states of special attention given to the political environment of those states within which the institutions of government operate. Since certain areas will be covered on a semester basis, the course may be repeated for credit when the area of study changes.

418 Constitutional Law I (I, II, S) 3 hours
The first semester of a two semester course in American Constitutional Law. It seeks to familiarize the student with the background of the American Constitutional system, the nature of the judicial process and the role of the United States Supreme Court in the development of the institutions and powers of the American Federal System.
PREREQ: 110, 111

419 Constitutional Law II (I, II, S) 3 hours
The second semester of the American Constitutional Law course. It focuses on the role of the United States Supreme Court in delineating and defining the political and civil rights guaranteed in the United States Constitution.
PREREQ: 110, 111

423 National Security Policy (I, II, S) 3 hours
The processes and the machinery of formulating national security policy and the influences involved. Special emphasis is given to demonstrating the interrelationships among political, military, technological, domestic and international factors.

426 International Law of Peace (I, S) 3 hours
A basic course in the broad curriculum of international politics. It seeks to introduce the student to the continuing history and law which is accepted by the international community and according to which it seeks to function in its relations as sovereign states. The aspects of the Law of War are excluded from this treatment.

431 Political Theory I (I, S) 3 hours
Reviews and analyses the leading political theories of Western Man from the Hebrews and Greeks to the mid-17th Century.

432 Political Theory II (I, S) 3 hours
Continues the review and analysis of the leading political theories of Western Man begun in Pol. Sci. 431, bringing the study down to the present day.

433 American Political Thought (I, S) 3 hours
An overview and analysis of the dominant political thoughts and ideas that have been present in American thinking from the days of the Puritans to today, and the individuals who held them.

440 Public Budgeting (I) 3 hours
A study of the processes and procedures involved in making budgets for governmental institutions.
PREREQ: 317

441 Public Personnel Management (I, S) 3 hours
A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance.
PREREQ: 317

451 Comparative Politics; Theories and Literature of the Field (I, S) 3 hours
An examination of the purpose, theories and literature of the field of comparative politics, with emphasis on the theories by application to contemporary political problems.
PREREQ: Graduate standing or senior standing with permission of the instructor and the department head.
414 Non-parametric Statistics (2) 2 hours
A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in the social behavioral sciences.

415 Factor Analysis (I) 3 hours
A study of procedures that can be used to find lower rank approximations to data matrices.

416 Analysis of Variance (II) 3 hours
Consideration is given in this course to descriptive and inferential procedures for use in analysing individual differences expressed as variance. One-way and multivariate designs are discussed, along with the models, purposes, assumptions and techniques appropriate to each.

421 General Experimental Psychology (I,II) 4 hours
Advanced laboratory techniques and methods in the fields of sensation, perception, and learning are presented, and the student is given an opportunity to conduct supervised research on several laboratory projects.

423 Physiological Psychology (I,II) 3 hours
The relation of the structure and functions of the nervous system of the organism to its behavior. Research will be emphasized throughout the course.

431 Psychological and Educational Testing (III) 3 hours
The purpose of the course is to acquaint students in Education and Psychology with the different kinds of standardized tests available to them for the evaluation of students' program and for guidance. Emphasis will be placed on achievement tests, and construction of teacher-made tests.

PREREQ.: Psych 102 or 351

443 Personality Theory (I) 3 hours
A study of personality theories designed to acquaint the student with the Freudian viewpoint which has dominated more than any other comprehensive system to date.

PREREQ.: Psych 213 and 315

444 Abnormal Psychology (II) 3 hours
This course is designed to acquaint the student with the problems of abnormal behavior and the various theories of abnormality. Abnormal behavior is studied in terms of the individual and the group. Theories of abnormality are then discussed in terms of the individual and the group. Abnormal behavior is studied in terms of the individual and the group. Theories of abnormality are then discussed in terms of the individual and the group.

PREREQ.: Psych 241

447 Counseling Theory (I) 3 hours
A course in the theory and practice of counseling. The course will cover the principles of counseling and the techniques of counseling, with particular emphasis on the role of the counselor in the counseling process.

PREREQ.: S 342 or S 350

451 Human Engineering (I) 3 hours
The methods of human engineering are discussed as they relate to the design of machines for efficient human use. Special emphasis will be placed on the design of systems and procedures for the efficient use of human resources.

PREREQ.: Psych 101 and permission of instructor

463 Techniques of Programmed Instruction (I,II) 3 hours
Introduction to methods and techniques in the design of instructional aids and materials for the instruction of knowledge and skills. The course will cover the basic principles of programmed instruction and the design and development of instructional materials.

PREREQ.: Psych 101 and permission of instructor

490 Problems in Psychology (II) 1-3 hours
A faculty-supervised research project, involving empirical or library work and oral or written reports.

PREREQ.: 15 hours of psychology
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<th>Description</th>
<th>Hours</th>
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<td>491</td>
<td>Research Problems in Physiological Psychology</td>
<td>An individualized introduction to the techniques and methodology used in &quot;Current Brain Research&quot; utilizing the facilities of the Psychobiology Laboratory including the non-human primate colony.</td>
<td>(I,II,S) 3</td>
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<td>501</td>
<td>History of Psychology</td>
<td>A study through reading and discussion of the significant individual contributors to the growth of psychology.</td>
<td>(I) 3 hours</td>
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<tr>
<td>502</td>
<td>Current Trends in Psychology</td>
<td>A study through reading and discussion of the most recent developments covering all specialties.</td>
<td>(II) 3 hours</td>
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<tr>
<td>505</td>
<td>Learning Theory</td>
<td>This course presents, at an advanced level, the work of the theorists who have most directly influenced the contemporary psychology of learning.</td>
<td>(II) 3 hours</td>
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<tr>
<td>506</td>
<td>Tests and Measurements</td>
<td>A study of the trait approach to personality theory through examination of standardized tests and theoretical concepts such as reliability and validity.</td>
<td>(I) 3 hours</td>
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<tr>
<td>507</td>
<td>Experimental Social Psychology</td>
<td>A study through lectures and laboratory work of group processes emphasizing information theory, game theory and graph theory.</td>
<td>(I,II) 4 hours</td>
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<tr>
<td>509</td>
<td>Advanced Educational Psychology</td>
<td>A study of the principles of learning and testing and their applications to problems of contemporary education, particularly to those problems existing in the classroom.</td>
<td>(I,II,S) 3 hours</td>
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<tr>
<td>513</td>
<td>Individual Tests: Children and Adolescents</td>
<td>Administration, scoring, standardization and interpretation of and research with the Revised Stanford-Binet (L-M), Vineland Social Maturity Scale, Weksher Intelligence Scale for Children, Goodenough-Harris and House-Tree-Person Techniques.</td>
<td>(I) 4 hours</td>
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<tr>
<td>514</td>
<td>Individual Tests: Children and Adolescents</td>
<td>Administration, scoring, standardization and interpretation of and research with the Wechsler Adult Intelligence Scale, Wide Range Achievement Test, Bender Visual-Motor Gestalt Test, Children's Aperception Test, Sentence Completion and Thematic Apperception Technique.</td>
<td>(II) 4 hours</td>
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<tr>
<td>515</td>
<td>Introduction to Therapeutic Techniques with Children</td>
<td>To become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. The history and methods of and the research with play therapy are considered.</td>
<td>(I) 3 hours</td>
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<tr>
<td>516</td>
<td>Seminar in Industrial Psychology</td>
<td>Intensive study of current problems and research in psychology in industry with particular emphasis on integration of research findings.</td>
<td>(II) 3 hours</td>
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**SOCIOLGY**

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<th>Course Code</th>
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<th>Description</th>
<th>Hours</th>
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<tr>
<td>401</td>
<td>Social Control of Behavior</td>
<td>The social psychological processes by which individual behavior is adapted to its place in the group, external restraints, roles, self control. Analysis and measurement of behavior in the context of a socially defined &quot;field of forces.&quot;</td>
<td>(I) 3 hours</td>
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<tr>
<td>402</td>
<td>Collective and Exchange Behavior</td>
<td>The social psychology of groups; the study of the processes of growth and change within unstable and transitory groups of various kinds including small groups, crowds and associated phenomena, diffuse collectivities, advertising and propaganda aggregates in mass society, publics and social movements, the theory of exchange as a means of explaining relationships between individuals and groups.</td>
<td>(II) 3 hours</td>
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<tr>
<td>410</td>
<td>The Community</td>
<td>Principles of community organization; techniques of analysis; the power structure of the community. The concept of community as a unit of social organization, past and present, with illustrations drawn from the city of Omaha and its constituent sub-groups.</td>
<td>(I) 3 hours</td>
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<td>413</td>
<td>Sociology of Deviant Behavior</td>
<td>A theoretical analysis of the relation of deviant behavior, including crime, vice, innovation, individual pathology, and deviant sub-groups, to community standards of conventional behavior as expressed in law and norms.</td>
<td>(II) 3 hours</td>
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<td>414</td>
<td>Urban Sociology</td>
<td>A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.</td>
<td>(II) 3 hours</td>
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**Psychology**

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<th>Course Code</th>
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<th>Description</th>
<th>Hours</th>
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<td>501</td>
<td>Topical Seminar in Psychology</td>
<td>A discussion of specific advanced topics which will be announced whenever the course is offered.</td>
<td>(I,II) 1-3 hours</td>
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<td>605</td>
<td>Practicum in Psychology</td>
<td>Faculty-supervised experience in a real life educational agency, clinic or institutional setting designed to bridge the gap between the classroom and a job in emphasizing use of previously acquired knowledge in dealing with practical problems.</td>
<td>(I,II,S) 1-6 hours</td>
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<tr>
<td>601</td>
<td>Thesis</td>
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<td>each 3 hours</td>
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<tr>
<td>602</td>
<td>Independent Research Project</td>
<td>Writen under the supervision of a faculty committee</td>
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</table>
415 American Family Problems  
(1) 3 hours  
A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society. (2) An analysis of failures of function and attendant problems in a variety of American families: parent-child, peer groups, problems of social adjustment, role conflicts, multi-problem families, desertion, divorce, others.  
PREREQ.: 6 hours of Sociology or permission of the instructor.

421 Cultural Anthropology  
(1) 3 hours  
Family, art, war, maintenance, prestige, religion approached as parts of an integrated whole, a way of life of preliterate human society. Illustrations from a number of simple societies, anthropological theories, methods of study.  
PREREQ.: Soc. 221 or permission of the instructor.

451 Penology and Corrections  
(II) 3 hours  
Origins of theories of punishment and history of prison systems; principles and programs of institutional correction and problems of administration.  
PREREQ.: Soc. 221 or permission of the instructor.

452 Methods of Social Research  
(III) 3 hours  
Relationships of theory, method, and the "facts" of the investigation. Major techniques and instruments employed in gathering social research data, how developed, where applicable. Formulations of research problems, use of statistics in research analysis. Practical problems and limitations.  
PREREQ.: Statistics and 6 hours Sociology.

462 Complex Social Organizations  
(II) 3 hours  
PREREQ.: Soc. 301.

471 Development of Sociological Theory  
(1) 3 hours  
An intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. Stress is placed on the development of sociology as a science with illustrative materials drawn from the established works of recent decades although backgrounds to these are traced to their ancient and medieval antecedents where applicable.  
PREREQ.: 9 hours Sociology.

472 Contemporary Sociological Theory  
(II) 3 hours  
A thorough and detailed presentation of a major theoretical integration of contemporary sociological research and theory with shorter descriptive presentations of alternative positions indicating similarities and differences. Principles of theory construction and a review of major sociological concepts and writers.  
PREREQ.: 9 hours Sociology.

475 Social Change  
(II) 3 hours  
An analysis of the manner in which social change occurs, the precipitating conditions, the results of change with emphasis on contemporary characteristics and magnitudes. An exploration of relationships between social psychology and social organization.  
PREREQ.: 9 hours Sociology and/or History

501 Problems in Sociology, Seminar  
(1.5) 3 hours per week  
This required seminar begins with a basic orientation to the profession. Leading figures, publications, organizations, university departments in the field are discussed. Assignments stress skill in the use of the professional literature. The emphasis changes gradually to critical discussion of substantive issues and the locating of sociological problems and ends with the preparation and presentation of papers on a sociological topic which is different every year.

505 Seminar in Social Psychology  
(1) 3 hours  
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in Social Psychology selected by the instructor.

510 Seminar in Applications of Sociology  
(II) 3 hours  
Sociological theory and method applied to a problem, usually a practical problem. For example, a partial malfunctioning of some task group (i.e., a social agency, business, family, educational institution, or government bureau) is hypothesized to be found somewhere in the sphere of social relationships. The task of the seminar is the location and definition of the malfunctioning by study, application, checking results. This is "consumer's sociology" oriented toward concrete solutions and practical utility rather than scientific contributions.

550 Topical Research Seminar  
(1) 3 hours  
A complete research project carried out under the supervision of an instructor particularly qualified in the intellectual area chosen. Students participate in the background work, question formulation, selection of or construction of test instruments, data gathering, and analysis.

560 Seminar in Social Organization  
(1) 3 hours  
Assign reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in Social Organization selected by the instructor.

570 Seminar in Sociological Theory  
(1) 3 hours  
Assign reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociological theory selected by the instructor.

585 Practicum in Applied Sociology  
(1) 6 hours  
A practical work experience under supervision which provides opportunity for applying principles from the students' academic area of concentration.

691-692 Thesis  
(1, 2) 6 hours  
As seminar topics change these course numbers may be repeated in a student's program without implying duplication.
TEACHER CORPS

Ed 430 Teaching of Reading ................................... 2-3 hours
A survey of the developmental reading teaching techniques and methods for teaching reading in the elementary school.

Ed 431 Teaching of Language Arts ................................ 2-3 hours
A survey of the contents of the language arts areas in the elementary school and a study of the methods and techniques of teaching language arts.

Ed 432 Teaching of Mathematics .................................. 2-3 hours
A survey of the content of mathematics in the elementary school and a study of the methods and techniques of teaching mathematics.

Ed 433 Teaching of Science ........................................ 2-3 hours
A survey of the contents of science in the elementary school and a study of the methods and techniques of teaching science.

Ed 434 Teaching of Language Arts ................................ 2-3 hours
A survey of the contents of science in the elementary school and a study of the methods and techniques of teaching science.

Sec 511 Social Problems of the Disadvantaged ............... 3 hours
A survey of the social problems existing in a disadvantaged community and the effects upon individuals interacting within cultural settings.

Ed 548 National Teacher Corps Internship & Practicum ...... 2-3 hours
An integration of community and school experiences with special reference to the disadvantaged pupil. Each semester focuses upon a curriculum area of the junior high and elementary school—language arts, social studies, evaluation procedures, classroom control and curriculum are the foci.

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