1968

Graduate Academic Catalog (June 1968-June 1969)

University of Nebraska at Omaha

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<td>Mathematics</td>
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<td>Physics</td>
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<td>Speech &amp; Drama</td>
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<td>Index</td>
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</tbody>
</table>
THE GRADUATE COLLEGE

OFFICIAL CALENDAR

SUMMER 1968

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

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.

July 4
Holiday. (University closed).

July 12
Last day for submitting applications for admittance to second summer session.

July 19
Last day for filing applications for degrees to be conferred August 31, 1968.

July 15-Aug. 16
Second session.

FIRST SEMESTER 1968-69

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

September 9-13
Registration.

September 16
Official beginning of first semester at 7:30 a.m. Day and evening classes begin.

September 16
Late registration begins.

September 20
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 21
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"). Theses due in Graduate Office.

October 8
Founder's Day.

November 8
Last day a class may be dropped in order to receive a "W" or an "X."

November 8
Theses due in Graduate Office.

November 27
Thanksgiving recess begins at 9:40 p.m.

December 2
Classes resume at 7:30 a.m.

December 9
Last day for filing applications for degrees to be conferred in January 1969.

December 20
Christmas Convocation at 10 a.m.

December 21
Christmas Vacation begins at noon.

January 6, 1969
Classes resume at 7:30 a.m.

January 11
Master's Comprehensive Examination.

January 15
Last day for submitting applications for admittance to second semester.

January 14-21
Final Examinations.

January 23
All grades due in Registrar's Office by 3:30 p.m.

January 25
Mid-year Commencement 10 a.m. (Saturday).

SECOND SEMESTER 1968-69

January 27-31
Registration.

February 3
Official beginning of second semester at 7:30 a.m. Day and evening classes begin.

February 3
Late registration begins.

February 7
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").

February 8
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"). Theses due in Graduate Office.

March 28
Last day a class may be dropped in order to receive a "W" or an "X."

April 2
Spring Vacation begins at 9:40 a.m.

April 8
Classes resume 7:30 a.m.

April 8
Last day for filing applications for degrees to be conferred in June 1969.

April 26
Master's Comprehensive Examination.

May 9
Ma-ie Day—student holiday.

May 20-25
Final Examinations.

May 29
Alumni Achievement Day.

May 30
Memorial Day Holiday (University closed).

May 31
All grades due in Registrar's Office by 12 noon.

June 2
Sixtieth Commencement. (Monday).

SUMMER 1969

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

June 6-7
Registration.

June 9-July 11
First session.

June 10-July 31
Evening session.

June 21
Theses due in Graduate Office.

July 4
Holiday.

July 5-6
Master's Comprehensive Examination.

July 11
Last day for submitting applications for admission to second summer session.

July 14-Aug. 15
Second Session.

July 18
Last day for filing applications for degrees to be conferred August 31, 1969.
### The Graduate College

#### GRADUATE RECORD EXAMINATION

<table>
<thead>
<tr>
<th>Registration Deadlines</th>
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<tbody>
<tr>
<td>June 13, 1968</td>
<td>July 13, 1968</td>
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<td>September 26, 1968</td>
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<td>November 14, 1968</td>
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<td>December 18, 1968</td>
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<td>March 26, 1969</td>
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<tr>
<td>June 12, 1969</td>
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#### ADMISSION TEST FOR GRADUATE STUDY IN BUSINESS

Registration deadlines and testing dates from Dr. Gale Oleson.

 Students applying for admission must have on file in the Graduate Office the results of the GRE or the ATGSB, 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.

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**University of Nebraska at Omaha**

**Administration**

The Board of Regents

<table>
<thead>
<tr>
<th>Name</th>
<th>Term Expires</th>
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<tbody>
<tr>
<td>Robert L. Raun, Norman</td>
<td>January 1969</td>
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<td>J. G. Elliott, Scottsbluff</td>
<td>January 1969</td>
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<td>B. N. Greenberg, M.D., York</td>
<td>January 1971</td>
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<td>Richard E. Adkins, Osmond</td>
<td>January 1971</td>
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<td>Richard L. Herman, Omaha</td>
<td>January 1973</td>
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<tr>
<td>Edward Schwartzkopf, Lincoln</td>
<td>January 1973</td>
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<tr>
<td>Joseph Sosnick, Lincoln, Corporation Secretary</td>
<td>January 1973</td>
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**The University**

Clifford Morris Hardin, Ph.D., Chancellor, University of Nebraska.

Kirk E. Naylor, Ed.D., President, University of Nebraska at Omaha.

George R. Rachford, Ed.D., Vice-President, Campus Development.

Philip Milo Bail, Ph.D., LL.D., President Emeritus.

Donald J. Pfisterer, M.Ed., Dean of Student Personnel.

James A. Scriven, Ed.D., Director of Admissions.

Virgil V. Sharpe, B.A., Registrar.

Harold D. Keeover, B.S., Comptroller.

---

**THE COLLEGES**

Robert D. Harper, Ph.D.

Dean, The College of Liberal Arts and Sciences

Anson D. Marsion, M.S.C.E.

Dean, The College of Engineering and Technology

Paul C. Kennedy, Ed.D.

Dean, The College of Education

John W. Lucas, M.B.A.

Dean, The College of Business Administration

William T. Utley, M.A.

Dean, The College of Continuing Studies

Director, Summer Sessions

Elton S. Carter, Ph.D.

Dean, The Graduate College

Chairman of the Graduate Faculty
# The Graduate College

## GRADUATE FACULTY

### 1968-69

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<td><strong>Robert L. Ackerman</strong></td>
<td>Education</td>
</tr>
<tr>
<td>Ed.D., University of Nebraska, 1968; Professor</td>
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<tr>
<td><strong>Paul B. Ackerson</strong></td>
<td>Secondary Education</td>
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<tr>
<td>Ed.D., Oklahoma State University, 1965; Professor</td>
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<tr>
<td><strong>Frederick W. Adrian</strong></td>
<td>History</td>
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<tr>
<td>Ph.D., Ohio State University, 1942; Professor</td>
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<tr>
<td><strong>Clifford Andersen</strong></td>
<td>Philosophy</td>
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<tr>
<td>Ph.D., University of Wisconsin, 1952; Professor and Head of Department</td>
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<tr>
<td><strong>George Barger</strong></td>
<td>Sociology</td>
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<tr>
<td>Ph.D., University of Missouri, 1964; Associate Professor</td>
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<tr>
<td><strong>Nicholas Bariss</strong></td>
<td>Geography</td>
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<tr>
<td>Ph.D., Clark University, 1967; Associate Professor</td>
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<tr>
<td><strong>Walter J. Beaufre</strong></td>
<td>Special Education</td>
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<tr>
<td>Ph.D., Columbia University, 1962; Professor and Head of Department, Director, Clinical Services</td>
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<tr>
<td><strong>Paul L. Beck</strong></td>
<td>History</td>
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<tr>
<td>Ph.D., University of Nebraska, 1961; Professor</td>
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<tr>
<td><strong>Robert W. Benecke</strong></td>
<td>Accounting and Finance</td>
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<tr>
<td>D.B.A., University of Colorado, 1968; Associate Professor</td>
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<tr>
<td><strong>Hollie B. Bethel</strong></td>
<td>Elementary Education</td>
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<tr>
<td>Ed.D., University of Colorado, 1957; Professor and Head of Department</td>
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<tr>
<td><strong>John V. Blackwell</strong></td>
<td>Art</td>
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<tr>
<td>Ph.D., State University of Iowa, 1957; Professor and Head of Department</td>
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<tr>
<td><strong>Richard Blake</strong></td>
<td>Counseling and Guidance</td>
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<td>Ph.D., University of Missouri, 1966; Assistant Professor</td>
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<td><strong>Robert P. Bogman</strong></td>
<td>Biology</td>
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<td>Ph.D., Iowa State University, 1962; Associate Professor</td>
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<td><strong>John K. Brilhart</strong></td>
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<td>Ph.D., Pennsylvania State University, 1962; Professor and Head of Department</td>
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<td><strong>Merle E. Brooks</strong></td>
<td>Biology</td>
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<td><strong>William M. Brown</strong></td>
<td>Marketing</td>
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<tr>
<td>Ph.D., University of Pittsburgh, 1957; Professor</td>
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<td><strong>Charles M. Bull</strong></td>
<td>Marketing</td>
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<tr>
<td>Ph.D., University of Nebraska, 1962; The Frederick W. Kayser Professor of Marketing</td>
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<tr>
<td><strong>Kenneth Burkholder</strong></td>
<td>Education</td>
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<tr>
<td>Ed.D., University of Nebraska, 1959; Professor</td>
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<td><strong>Karl H. D. Busch</strong></td>
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<td>Ph.D., Ohio State University, 1940; Professor and Head of Department</td>
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<td><strong>H. Carl Camp</strong></td>
<td>Political Science</td>
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<td>Ph.D., Washington University, 1965; Associate Professor</td>
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<tr>
<td><strong>Elton S. Carter</strong></td>
<td>Speech</td>
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<tr>
<td>Ph.D., Northwestern University, 1956; Professor and Dean, Graduate College; Chairman, Graduate Faculty</td>
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<td><strong>Perry P. Chang</strong></td>
<td>Economics</td>
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<tr>
<td>Ph.D., University of Washington, 1938; Professor</td>
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<tr>
<td><strong>Edwin L. Clark</strong></td>
<td>Speech</td>
</tr>
<tr>
<td>Ph.D., State University of Iowa, 1931; Professor; Director, University Theater</td>
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**University of Nebraska at Omaha**

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<tr>
<td><strong>Donald Cushmanbery</strong></td>
<td>Reading</td>
</tr>
<tr>
<td>Ed.D., University of Missouri, 1964; Professor; Director, Reading Clinic</td>
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<td><strong>Harl Dalstrom</strong></td>
<td>History</td>
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<tr>
<td>Ph.D., University of Nebraska, 1955; Associate Professor</td>
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<tr>
<td><strong>Joseph G. Dunn</strong></td>
<td>Education</td>
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<tr>
<td>Ed.D., University of Missouri, 1953; Professor and Head, Department of Foundations and General</td>
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<tr>
<td><strong>Lawrence E. Ehlers</strong></td>
<td>Engineering</td>
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<tr>
<td>M.S., Kansas State University, 1956; Registered Professional Engineer; Associate Professor</td>
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<tr>
<td><strong>Richard E. Gibson</strong></td>
<td>Engineering</td>
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<tr>
<td>M.S., University of Illinois, 1953; Registered Professional Engineer; Associate Professor</td>
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<tr>
<td><strong>G. Wayne Glidden</strong></td>
<td>Secondary Education</td>
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<tr>
<td>Ed.D., University of Nebraska, 1964; Professor</td>
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<tr>
<td><strong>Frank H. Gorman</strong></td>
<td>Education</td>
</tr>
<tr>
<td>Ph.D., University of Missouri, 1931; Professor; Dean Emeritus, College of Education</td>
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<tr>
<td><strong>Ert J. Gum</strong></td>
<td>History</td>
</tr>
<tr>
<td>Ph.D., Louisiana State University, 1965; Associate Professor</td>
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<tr>
<td><strong>Robert D. Harper</strong></td>
<td>English</td>
</tr>
<tr>
<td>Ph.D., University of Chicago, 1949; Professor; Dean of the College of Liberal Arts and Sciences</td>
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<tr>
<td><strong>George T. Harris</strong></td>
<td>Finance</td>
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<tr>
<td>Ph.D., State University of Iowa, 1959; The Frederick W. Kayser Professor of Finance</td>
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<tr>
<td><strong>Forrest R. Hazard</strong></td>
<td>Foreign Languages</td>
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<tr>
<td>M.A., University of Nebraska, 1952; Assistant Professor</td>
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<tr>
<td><strong>George C. Helbing</strong></td>
<td>Sociology</td>
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<tr>
<td>Ph.D., University of Minnesota, 1959; Professor and Head of Department</td>
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<tr>
<td><strong>Wayne M. Higley</strong></td>
<td>Accounting &amp; Statistics</td>
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<tr>
<td>Ph.D., University of Illinois, 1962; C.P.A.; Professor</td>
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<tr>
<td><strong>Jack A. Hill</strong></td>
<td>Management</td>
</tr>
<tr>
<td>Ph.D., University of Texas, 1959; Professor</td>
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<tr>
<td><strong>William C. Hockett</strong></td>
<td>Accounting</td>
</tr>
<tr>
<td>M.B.A., University of Denver, 1949; C.P.A.; Professor</td>
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<tr>
<td><strong>Leta F. Holley</strong></td>
<td>Secretarial Science</td>
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<td>Ed.D., University of Colorado, 1959; Professor and Head of Department</td>
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<td><strong>James Q. Hossack</strong></td>
<td>Engineering</td>
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<tr>
<td>M.S.E., University of Nebraska, 1955; Registered Professional Engineer; Associate Professor</td>
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<td><strong>Francis M. Hurst</strong></td>
<td>Psychology</td>
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<td>Ed.D., Indiana University, 1954; Professor</td>
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<td><strong>Charles O. Ingham</strong></td>
<td>Biology</td>
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<tr>
<td>Ph.D., University of Utah, 1963; Assistant Professor</td>
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<td><strong>D. F. Kellams</strong></td>
<td>Education</td>
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<tr>
<td>Ed.D., University of Kansas, 1964; Associate Professor and Head, Department of Education Administration and Supervision</td>
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<td><strong>Paul C. Kennedy</strong></td>
<td>Education Administration and Supervision, and Foundation and General</td>
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<td>Ed.D., University of Kansas, 1955; Professor and Dean, College of Education</td>
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<td><strong>C. Robert Keppel</strong></td>
<td>Chemistry</td>
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<tr>
<td>Ph.D., Massachusetts Institute of Technology, 1959; Associate Professor</td>
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</tbody>
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491 Internship in Local Government (same as Political Science 491) (L.I.S.) 2-6 hrs. Internship in Local Government offices; Participation in the policymaking and administrative processes of Local Government; discussions and reports. PREREQ: Pol. Sci. 110, 111, 301, 317 or their equivalents, and senior standing; (All listed under Economics, Geography, and History.)

499 Independent Study 1 to 3 hours Guided reading in special topics under the supervision of a faculty member. PREREQ: Senior standing and permission of the instructor.

501 Problems in Sociology, Seminar 1-1/2 hours per week or equivalent, 3 hours for the academic year. This seminar, required of departmental graduate students, gives a basic orientation to the profession, its leading figures, publications, organizations, and university departments. It emphasizes critical discussion of issues in the discipline and the substantive problems of sociology.

505 Seminar in Social Psychology 3-6 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.

511 Seminar in Modern Public Address (I) 3 hours A study of the effects of broadcasting and the arts. The effects upon individuals of such settings, the subculture of poverty.

550 Seminar in Social Organization 3-6 hours A seminar dealing with a problem selected by the instructor. The study theme will vary from time to time in keeping with the special interests of the instructor.

555 Seminar in Social Psychology 3-6 hours A seminar dealing with a problem selected by the instructor. The study theme will vary from time to time in keeping with the special interests of the instructor.

563 Seminar in Sociology 3-6 hours Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociology selected by the instructor.

570 Seminar in Sociological Theory 3-6 hours Assigned 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.

571 Population Seminar (same as Geography 571) (S) 3 hours The significance of differences from place to place in the number, kind, and qualities of human inhabitants and changes through time. PREREQ: Permission.

580 Independent Study in Topics in Urbanism 3-6 hours Graduated student research on an individual basis under faculty supervision in topics pertaining to urbanism. PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, geography, and political science.)

583 Interdisciplinary Seminar on the Urban Community 2-6 hours An interdisciplinary course in the metropolitan community in which various departmental and college offerings are put in broad interrelated focus. PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, geography, and political science.)

655 Practicum in Applied Sociology Each 3 hours A practical work experience under supervision which provides opportunity for applying principles from the student's academic area of concentration. PREREQ: Permission of the instructor.

601-602 Thesis Each 3 hours
401 Social Control of Behavior
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.
PREREQ: Psych 351

554 Individual Tests: Adolescents and Adults
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 Appercception Test, Sentence Completion, and Thematic Appercception Technique.
PREREQ: Basic Statistics and Psych 453 or Psych 532 or permission of instructor

555 Introduction to Therapeutic Techniques with Children
The purpose of this course is to become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. The course covers a broad range of topics including play therapy, the history of play therapy, and the research on play therapy.
PREREQ: Permission of instructor

651 Seminar in Industrial Psychology
Intensive study of current problems and research in psychology in industry with particular emphasis on integration of research findings.
PREREQ: Graduate standing and Psych 421

403 Collective and Exchange Behavior
The study of the processes of growth and change within unstable and transitory groups including crowds and associated phenomena, diffuse collectivities, advertising and propaganda aggregates in mass society, publics, and social movements.
PREREQ: 9 hours sociology including 101 or 403 and 201

414 Urban Sociology
A course in the sociology of cities and the social characteristics of urban life, including its historical, demographic, social psychological, and institutional aspects. The unique problems of the modern metropolis complex, both as to effective functioning and as an environment for human beings, are discussed.
PREREQ: 9 hours sociology including 101 or 403

415 American Family Problems
(1) 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-youth tension, problems of sexual adjustment, role conflicts, multi-problem families, desertion, divorce, others.
PREREQ: 9 hours sociology including 101 or 403 or permission of the instructor

421 Cultural Anthropology
Family, art, war, maintenance, prestige, religion approached as parts of an integrated whole, a way of life or preliterate human society. Illustrations from a number of simple societies, anthropological theories, methods of study.
PREREQ: Soc 105 or permission of the instructor

422 North American Archaeology
American Indian culture history in North America, with emphasis on the peopling of the New World, origin and development of Native American agriculture, development of Middle American Civilizations and their impact on core areas of village-farming in the continental United States: introduction to archaeological investigation techniques, dating methods, and taxonomic concepts.
PREREQ: Soc 105 or 421

451 Methods of Social Research
Relations of theory, method, and data in sociological investigation. Major techniques and instruments employed in social research, how developed, and where appropriately used. Formulation of research problems, use of statistics in analysis. Practical problems and limitations.
PREREQ: 12 hours sociology including 101 or 403 and 201

503 Complex Social Organizations
Analysis of social structure in complex organizations. Processes involved in the integration and disintegration of complex social organizations. An introduction to organizational analysis in medical, military, governmental, educational, and business settings. Implications of large scale bureaucratization for social functioning.
PREREQ: 9 hours sociology including 301

514 Development of Sociological Theory
An intellectual history of sociology as an academic discipline surveyed for 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: 12 hours sociology and senior standing

517 Contemporary Sociological Theory
A thorough and detailed presentation of a major theoretical integration of contemporary sociological theory and research with charts and maps presenting alternatives of theoretical positions indicating similarities and differences. Principles of theory construction and a review of major sociological theories and schools.
PREREQ: 12 hours sociology and senior standing

470 Social Change
A discussion of the theories and the basic models of social change illustrated by use of examples from contemporary and historical data. Emphasis is placed upon understanding causes and effects of social processes current in American society and the response of the individual to these.
PREREQ: Soc 104 or 301 and 8 hours sociology or history
PSYCHOLOGY

414 Non-parametric Statistics ................................. (I) 2 hours A study of distribution-free statistics with particular emphasis on appli- cation in social sciences.
PREREQ: Basic Statistics

454 Child Psychology ............................................. (I,S) 3 hours A study of the physical, social, emotional, and intellectual development of the child, including the pre-school period, primary, and elementary grades.
PREREQ: Psych 102 or 351

455 Adolescent Psychology ..................................... (II) 3 hours A study of the physical, social, emotional, and intellectual development of the adolescent from 12 to 19.
PREREQ: Psych 102 or 351

456 Retardation .................................................. (II) 3 hours 3 hours This course considers significantly sub-average intellectual functioning originating during the development period and associated with impairment in adaptive behavior. Research is emphasized.
PREREQ: Psych 431

457 Theories of Developmental Psychology ..................... (I) 3 hours A review of theories of behavior and theoretical problems related to the biological, psychological, and social development of man from conception to old age.
PREREQ: Psych 343 and Basic Statistics

461 Human Engineering ......................................... (I) 3 hours The methods of experimental psychology are discussed as they relate to problems of designing machines for efficient human use.
PREREQ: Psych 101 and permission of instructor

462 Techniques of Programmed Instruction ..................... (I,S) 3 hours An individualized introduction to methods and technology used in teaching machine programs, with special emphasis on computer-assisted instruction.
PREREQ: Psych 101 and permission of instructor

465 History of Psychology ....................................... (I) 3 hours A study through reading and discussion of the significant individual contributors to the growth of psychology.
PREREQ: Permission of instructor

466 Current Trends in Psychology ............................... (II) 3 hours A study through reading and discussion of the most recent developments covering all specialties.
PREREQ: Permission of instructor

467 Learning Theory ............................................. (II) 3 hours 3 hours This course presents an advanced level, the work of the theorists who have most directly influenced the contemporary psychology of learning.
PREREQ: Psych 301 and 421 or permission of instructor

470 Introduction to Counseling Theories ...................... 3 hours 3 hours Study of contemporary theories of counseling, the counseling process, and methods.
PREREQ: Education 490 or department permission

471 Tests and Measurements .................................... (II) 3 hours A study of the trait approach to personality theory through examination of standardized tests and theoretical concepts such as reliability and validity.
PREREQ: Psych 415

473 Experimental Social Psychology .......................... (I) 4 hours A study through lectures and laboratory work of group processes emphasizing information theory, game theory, and graph theory.
PREREQ: Psych 421
603 PREREQ: Permission of Instructor
Set Theory, topological spaces, convergence, continuity metric spaces and
metrization, simplicial homology theory.

598 Graduate Seminar
PREREQ: Permission of Instructor.
A graduate seminar in mathematics.

601 Thesis
PREREQ: Permission of Department Head.

PHYSICS

301 Elements of Electronics
The background of theory, operation, and practice of electronic devices
and circuits particularly as they apply to scientific instrumentation. Both
theory and practical aspects of electronic circuits and systems are involved.

302 Optics
The nature of light energy as disclosed through study of geometrical
optics, physical optics and quantum optics.

305 Thermodynamics

306 Heat and Thermodynamics

307 Modern Physics

308 Nuclear Physics

401 Modern Developments in Physics

402 Modern Developments in Physics

403 Problems in Physics

404 The Presidency

405 The Legislative Process

501 Comparative Politics: Theories and Literature of the Field

502 Theories and Literature of International Relations
509 Seminar in American Economic History ........................................ 3 hours
509 Seminar in American Economic History (Since 1885) ................. 3 hours
509 Seminar in United States Public Land Policy and Conservation (I) 3 hours
509 Seminar in Early Modern European History ......................... 3 hours
509 Seminar in European History: The Revolution of the Age .......... 3 hours
509 Seminar in European History: The Napoleonic Era: 1800-1815 ..... 3 hours
509 Seminar in Nineteenth Century European History ................. 3 hours
509 Seminar in Twentieth Century European Diplomatic History .... 3 hours
509 Seminar in World History: Military History and Policy ........ 3 hours
509 Seminar in Eighteenth Century British History .................... 3 hours
509 Seminar in British History: The Era of Reform .................... 3 hours
509 Seminar in Contemporary British History .......................... 3 hours
509 Thesis ............................................................................. Each 3 hours
509 Independent research project written under the supervision of an advisor.
The following 300-level courses in history are open to students for graduate credit with special assignments: 311, 312, 313, 315, 333, 334, 341, 344, 351, 352, 355 and 361.

MATHMATICS

COMPUTER SCIENCES

302 Advanced Programming Techniques .............................................. (I) 3 hours
PREREQ: CS 170, Math 182, 211 and CS 230
The analysis and composition of advanced programs used with contemporary
computers

330 Numerical Methods ..................................................................... (II) 3 hours
PREREQ: Math 192, 211 and CS 170
Solution of equations, polynomial approximation difference calculus,
interpolation, quadrature, initial value problems from ordinary differential
equations and matrix inversion.

331 Introduction to the Theory of Information Storage and Retrieval .... (II) 3 hours
PREREQ: Math 192 and CS 230
List processing languages, theories of file organization, theories of
system design, information retrieval, applications

430 Linear Programming ...................................................................... (II) 3 hours
PREREQ: Matrix or Linear Algebra.
An introduction to linear programming and applications.

432 Introduction to System Programming .......................................... (II) 3 hours
PREREQ: CS 302 or equivalent
Input-output and storage systems, structures and transformations of
data basis, assembly and executive systems.

470 Introduction to the Theory of Compilers .................................. (III) 3 hours
PREREQ: CS 302 or equivalent
Assembler, interpreters, compilers, particular languages studied include:
a) sdc, 8086, c, c++, c, c++

MATHMATICS

Differential Equations ..................................................................... (III) 3 hours
PREREQ: Math 211 or equivalent.
Methods of solving ordinary differential equations with applications
to geometry and physics

Elementary Topics ........................................................................ (II) 3 hours
PREREQ: Math 191 or equivalent.
The course contains elementary topics of interest selected from geometry
analysis, number theory, point set topology and logic.

Game Theory .................................................................................. (II) 3 hours
PREREQ: 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 ................................................................. (II) 3 hours
PREREQ: Math 192 and junior standing.
Events and probabilities, dependent and independent events, random
variables, discrete distributions, absolutely continuous distributions, expec-
tion and limit theorems, point estimation, the multivariate normal
distribution, testing of statistical hypotheses, confidence intervals.

509 Probability and Statistics II ......................................................... (I.I) 3 hours
PREREQ: Math 192 and junior standing.
Events and probabilities, dependent and independent events, random
variables, discrete distributions, absolutely continuous distributions, expec-
tion and limit theorems, point estimation, the multivariate normal
distribution, testing of statistical hypotheses, confidence intervals.
### Twentieth Century America to 1932
**PREREQ:** Hist. 111 and 112
A study of the history of the United States from the end of the nineteenth Century to the election of Franklin D. Roosevelt to the Presidency in 1932.

### Twentieth Century America to Present
**PREREQ:** Hist. 111 and 112
A study of the history of the United States from the election of Franklin D. Roosevelt to the Presidency to the present.

### Ideas in Twentieth Century America
**PREREQ:** Hist. 111 and 112
An analysis of some of the more important ideas which have had influence in recent America.

### American Constitutional History to 1860
**PREREQ:** Hist. 111 and 112

### American Constitutional History since 1860
**PREREQ:** Hist. 433 or permission of instructor.
A study of constitutional theory of practice in the United States from 1860 to the present.

### Intellectual History of Modern Europe: Seventeenth and Eighteenth Centuries
**PREREQ:** Hist. 151 and 152
Intellectual History of Modern Europe from the beginning of the seventeenth century to the French Revolution.

### Intellectual History of Modern Europe: The Revolutionary Age to the Present
**PREREQ:** Hist. 151 and 152
Intellectual History of Modern Europe from the French Revolution to the present.

### Age of the Reformation
**PREREQ:** Hist. 151 and 152
A study of European society during the critical years following the Renaissance.

### The Age of Absolutism
**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.

### Age of the Enlightenment
**PREREQ:** Hist. 151 and 152
A study of the politics, economies, and culture of eighteenth century Europe and of the cause of the French Revolution.

### The French Revolution and Napoleonic Era: 1792-1815
**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 reasons for the ultimate collapse of the Empire.

### Nineteenth Century Europe, 1815-1870
**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.

### Nineteenth Century Europe 1840-1890
**PREREQ:** Hist. 151-152
An advanced interpretive analysis of the political and cultural development of Europe from the Revolutions of 1848 to 1890.

### Europe Since 1914
**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 1919. Full attention will be given to the growing conflict of ideologies during the 1920-1939 period and to the resulting Second World War and its aftermath.

### Great American Historians
**PREREQ:** Acceptance as a graduate major in history or permission of the department head and the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Historical Research
**PREREQ:** Acceptance as a graduate major in history or permission of the department head and the instructor.
The critical method in collecting and organizing historical materials; the problems of verification, evaluation, and organization of facts; the problems of writing; documentation, styling, and printing the product.

### Advanced Research Project in History
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the department head and the instructor.
Special problems in advanced work in history, arranged individually with graduate students.

### Seminar in Intellectual History of Modern Europe from the Beginning of the Seventeenth Century to the Present
**PREREQ:** Hist. 151 and 152 or (with permission of instructor) Hist. 151 and 152.
The development of the legal and governmental institutions of the English-speaking people to 1485, including England's central and local government and the governments of the member states of the Commonwealth and of the more important colonies.

### Seminar in European History: Social and Cultural History of Europe Since 1914
**PREREQ:** Hist. 151-152 and junior standing.
A study of the conditions and forces immediately preceding World War I, the war itself, the peace following the war, and the rise of the modern dictatorships.

### Seminar in Modern History
**PREREQ:** Hist. 151-152 and at least junior standing.
A study of the cause of the First World War, the peace following the war, and the rise of the modern dictatorships.

### Seminar in American History: The Frontier
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the department head and the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in American History: The Jacksonian Era
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the department head and the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in American History: The Frontier
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the department head and the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in American History: Civil War and Reconstruction
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in Recent American History
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in Recent American History: Nebraska and the Great Plains
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in Intellectual History of Modern Europe from the Beginning of the Seventeenth Century to the Present
**PREREQ:** Hist. 151 and 152 or (with permission of instructor) Hist. 151 and 152.
The development of the legal and governmental institutions of the English-speaking people to 1485, including England's central and local government and the governments of the member states of the Commonwealth and of the more important colonies.

### Seminar in European History: Social and Cultural History of Europe Since 1914
**PREREQ:** Hist. 151-152 and junior standing.
A study of the conditions and forces immediately preceding World War I, the war itself, the peace following the war, and the rise of the modern dictatorships.

### Seminar in Modern History
**PREREQ:** Hist. 151-152 and at least junior standing.
A study of the cause of the First World War, the peace following the war, and the rise of the modern dictatorships.

### Seminar in American History: The Frontier
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the department head and the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in American History: The Jacksonian Era
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the department head and the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in American History: The Frontier
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in Recent American History
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.

### Seminar in Recent American History: Nebraska and the Great Plains
**PREREQ:** Acceptance as a graduate major or minor in history and permission of the instructor.
A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.
424 Generation of '98
PREREQ: Span 315 or permission
Unamuno, Pareja, Valle-Inclan and Perez de Ayala and their examination of the Spanish status quo at the turn of the century.

436 Cerro Azulites
PREREQ: Permission
Study of Don Quixote and/or the Exemplary novels.

460 Pre-Seminar
PREREQ: Permission
A detailed study of narrower phases of Spanish, or Spanish American literature, language or culture.

GEOGRAPHY

412 Urban Geography
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.

423 Great Plains and Nebraska
A systematic geographical study of the natural and cultural elements giving regional character to this region.

432 Climates of the World
PREREQ: Geog. 251
Surveys the climates of the continents in terms of climatic controls and generalized climatic sub-regions.

442 Geography of Manufacturing
PREREQ: Geog. 313 or Econ 201 and 202
A course which discusses methods of measurement and classification, as well as the interrelation of manufacturing: major world manufacturing regions in the U.S. and local community patterns.

451 Historical Geography of the United States
PREREQ: Hist. 111 and 112
A study of the major accomplishments of the United States with emphasis on the formative periods.

501 Geography Concepts

502 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 Investigating the Earth
A survey of earth science which provides a basic knowledge of the earth as a planet, the solar system, and the universe; and an introduction to the earth’s atmosphere and hydrosphere.

504 Investigating the Earth
A survey of earth science which provides a basic knowledge of the earth as a planet, with emphasis on the lithosphere.

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

521 Cultural Geography
The philosophial basis of human and cultural geography; interpretation of the cultural landscape.

531 Geography of Agriculture
A systematic study of the character of agriculture (both crop and pasture) on a world-wide basis.

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

551 Geomorphology
PREREQ: Geog. 117 or 118 or 306
Concentrates on significant topics, problems, and applied cases in landform studies.

555 Physical Geography of North America
PREREQ: Geog. 104 or 117 or 118
A study of the landforms and regions of North America as related to the whole study of geography by means of a systematic analysis of geomorphic patterns.

558 Soil Geography
A synthesis of the concepts of the morphology, classification and distribution of soils with some emphasis on environment and genesis.

561 Field Geography
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.

565 Land Use
A field course designed to investigate and understand through urban 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 patterns of a given place.

567 Cartographic Methods
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.

572 Population Seminar
The significance of differences from place to place in the number, kind, and qualities of human inhabitants, and changes through time.

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

591 General Seminar
Review of current research by geographers including national and international organizations and initial thesis proposals.

601 Thesis
Each 3 hours

602 Independent research project written under the supervision of an adviser.

HISTORY

411 Representative Americans, 1077-1600
PREREQ: Hist. 111 and 112
A biographical approach to American history prior to 1600.

412 Representative Americans, 1600-1828
PREREQ: Hist. 111 or permission of instructor
A biographical approach to American history since 1600.

413 The Revolutionary Era, 1763-1789
PREREQ: Hist. 111 and 112
An analysis of the forces which led to the American Revolution and an examination of some of the problems which arose as a result of the separation from England.

414 Early Federal Period, 1789-1815
PREREQ: Hist. 111 and 112
A study of the growth and development of the American nation during the formative years under the Constitution.

416 The Jacksonian Era
PREREQ: Hist. 111 and 112
An interpretive study of the middle period of American history.

418 Civil War and Reconstruction
PREREQ: Hist. 111 and 112
An interpretive study of the middle period of American history.

421 The Emergence of Modern America: 1917-1967
PREREQ: Hist. 111-112 or permission of instructor
A study of a transitional period in American history, this course considers the importance of industrialization, urbanization, immigration, and the emergence of the United States as a significant world power.
### The Graduate College

**498 The American Drama** (II) 3 hours
A general view of the history of the drama and theatre in the United States, especially as related to the main currents of American thought. The following are all seminar courses:

**501 Introduction to Literary Research** (I) 3 hours
A survey of the techniques of literary research, history and interpretation, with a primary emphasis on methods of scholarship currently useful to the study of English and American literature.

**502 Romanticism and Realism** (I) 3 hours
Studies in English and American literature of the nineteenth and twentieth centuries.

**504 Literary Criticism** (II) 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.

**506 American Literature** (I) 3 hours
A historical study of the major literary movements in nineteenth and twentieth century America as they are expressed in poetry, fiction, drama, and criticism.

**508 Seminar in the English Renaissance** (I) 3 hours
Analysis of selected literary figures of the English Renaissance.

**510 Victorian Literature** (I) 3 hours
Intensive study of selected nineteenth century English authors and their works.

**512 Shakespeare** (II) 3 hours
Critical analysis of ten tragedies or ten comedies of Shakespeare.

**515 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.

**520 Seminar in Medieval Literature** (I) 3 hours
A study of the rationale and techniques of medieval allegory. PREREQ: Graduate standing and English 484 (Chaucer) or English 472 (Medieval English Literature)

### Foreign Languages

#### French

**335 Advanced Conversation and Composition** (II) 3 hours
PREREQ: French 315 or permission
Further oral exercises, grammar review, composition.

**337 French Civilization** PREREQ: French 212
Study of contemporary modes of life and thought in France.

**346 Eighteenth Century French Literature** (II) 3 hours
PREREQ: French 212
Study of the Enlightenment, emphasizing the works of Montesquieu, Voltaire, Rousseau and Diderot.

**351 Nineteenth Century French Literature** (III) 3 hours
PREREQ: French 212
From 1789 to 1914, Lamartine to Michelet, Stendhal, Merimee, Balzac, Hugo.

**421 Sixteenth Century French Literature** (II) 3 hours
PREREQ: Any 300 course in French literature.
Literature of the Renaissance, Rabelais, Ronsard, Montaigne.

**431 Seventeenth Century French Literature** (II) 3 hours
PREREQ: Any 300 course in French literature.
The Classical School, Descartes, Pascal, Corneille, Moliere, Racine, La Fontaine.

**451 Twentieth Century French Literature** (II) 3 hours
PREREQ: Any 300 course in French literature.
Main currents of twentieth century literature from the beginnings to 1939.

### German

**431 German Literature of the 19th Century** (II) 3 hours
PREREQ: German 313
The dramatic, epic and lyric works of nineteenth century German literature.

**432 German Literature of the 20th Century** (II) 3 hours
PREREQ: German 313
The principal dramatic, epic and lyric works of the twentieth century German literature.

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

**444 German Drama** PREREQ: German 313 or permission
Survey of the German short story, its historical origin, characteristics.

**445 German Novelle** PREREQ: German 313 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.

**455 Goethe** PREREQ: Permission
Goethe's life and works, discussion of his literary techniques, his importance and influence.

### Spanish

**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** (II) 3 hours
PREREQ: Span 212 or permission
Development beginning with growth of the colonies through revolutions for independence.

**350 Modern Drama of Spain** PREREQ: Span 313 or permission
Ideologies, 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 Blasso-Diaz.

**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
PREREQ: Spanish 316 or permission
Study of foremost Spanish American writers and their influences during the period of Modernism and Realism to the present.

**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** (II) 3 hours
PREREQ: Span 316 or permission
Outstanding classic writers and their influences of the sixteenth and early seventeenth centuries.
The Graduate College

ENGR 370 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 practice in each area: student will research and present a paper reflecting his personal professional interests, discussions, forums, and panels; visiting experts.

ENGR 432 Hydraulic Engineering (III) 3 hours
PREQ: CE 431—Fluid Mechanics

ENGR 449 Theory of Structures I (II) 3 hours
PREQ: CE 443
Theory and application of analytic methods in the design and consideration of industrial buildings, multistory buildings, space frames and arches.

ENGR 450 Engineering Systems and Analogues (I) 3 hours
PREQ: Math 356—Advanced Math for Engineers; Engr 349—Engineering Analysis
The formulation and solution of the mathematical model and engineering analogies for applications to system analysis.

ENGR 459 Soil Mechanics (I) 3 hours
PREQ: Senior standing and permission of instructor
Index properties and classification systems of soils, permeability, frost action, compaction, stress-strain characteristics, consolidation, bearing resistance, drainage and stabilization, bearing capacity and settlement, subsurface investigations of natural deposits.

ENGR 476 Pre-Stress Concrete (II) 3 hours
PREQ: CE 447
Materials for prestressing, systems, economic considerations, loss of prestress, friction effects, analysis and design of sections for flexure, shear bond, beam deflections on numerical analysis, partial prestress and prestressed reinforcement, continuous beams, load balancing method, prestressed slab design, composite construction.

ENGR 477 Matrix Methods of Structural Analysis (III) 3 hours
PREQ: CE 443 or Permission
Matrix methods and computer applications for analysis of structures, including beams, frames, trusses, space forms.

ENGR 481 Plastic Design (I) 3 hours
PREQ: CE 443 or permission

ENGR 482 Limit Design (II) 3 hours
PREQ: CE 481
Criteria for the plastic collapse of structures. Limit design applied to continuous beams, rigid frames, and component parts. Introduction to plastic design of structures.

ENGR 493 Advanced Strength of Materials (III) 3 hours
PREQ: Engr 362—Strength of Materials; Engr 364—Laboratory

ENGR 500 Structural Design for Dynamic Loads (I) 3 hours
PREQ: Graduate standing and permission
Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques.

ENGR 501 Special Engineering Problems (I-III 6 hours
PREQ: Graduate standing and permission from the instructor
The theory and application of the accumulated knowledge from undergraduate and graduate courses 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.
48  Psychology of Speech: Introduction to International Phonetic Alphabet; analysis of phonetic and phonemic elements in major American English dialects; practice in transcription of standard and defective speech.

49  Speech Evaluation: Methods and Practicum; teaching of speech disorders; principles in differential diagnosis and report writing; observation during evaluation periods in speech and hearing centers.

50  Measurement of Hearing; principles in auditory assessment; types of hearing loss; test administration; occupational hearing loss; rehabilitation of hearing impaired persons.

51  Methods and Materials in Speech Therapy; teaching of appropriate instructional materials in the area of language disorders; special emphasis in stuttering, aphasia and delayed language development.

52  Neurophysiology of the Speech Handicapped; neuropsychological functions of the organ of hearing and speech; theories of brain involvement; central and peripheral nervous system; therapists as they affect communication; individual projects.

53  Basic Structure and Function of the Organs of Hearing and Speech; principles of speech, hearing, and voice disorders; special emphasis in rehabilitation procedures and methods associated with stuttering.

54  Phonetics of American Speech; analysis of American English dialects; practice in transcription of standard and defective speech.

55  Speech Pathology I: Voice and Articulation; types and causes of voice and articulation disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with stuttering.

56  Speech Pathology II: Rhythm and Symbolization; types and causes of rhythm and language symbolization disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with stuttering.

57  Human Growth and Development; life span development; growth and development in the speech and hearing disorders; special emphasis in language disorders.

58  Clinical Practice in Speech Pathology; patient contact and application of techniques; role of the speech clinician; team participation in evaluation and rehabilitation of speech and language disorders.

59  Introduction to the Mentally Subnormal; nature and educational needs of children and youth who are mentally subnormal; definitions; prevalence and types of children in educational programs; history; trends.

60  Teaching the Exceptional Child; Required course for all Special Education majors.

61  Curriculum for Mentally Retarded Children; The mentally retarded child as an educable or trainable individual; investigation of the practices and problems in curricular development for the mentally subnormal child; pre-school through vocational; identification of needs and goals and determination of content.

62  Methods and Materials for Teaching Mentally Retarded Children; Teaching of mentally retarded children as related to a variety of educational processes designating for learning needs; methodology and teaching materials; principles in the design and implementation of curriculum units, pre-school through vocational; consideration of programs for the trainable, "Track One" and "Track Two" educational programs.

63  Observation and Student Teaching of the Mentally Retarded; minimum total of 180 clock hours of supervised practice teaching is required. Students are placed in two separate classes and on different levels for the educably retarded wherever possible; weekly seminar required of all students concurrent with practice teaching experiences.

64  Problems in Teaching Reading—Elementary; An advanced course for elementary and secondary teachers in the principles, practices, and use of instructional materials in the area of reading at the elementary level.

65  Problems in Teaching Reading—Secondary; An advanced course in reading for elementary or secondary teachers; major emphasis will be given to the development, organization, evaluation, methods, and materials of the teaching of reading in each of the content subjects at junior and senior high school levels.

66  Diagnostic and Remedial Instruction in Reading; A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediation of reading disabilities.

67  Individual Analysis of Reading Difficulties; 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, formulating evaluation schedules, administration of appropriate evaluative devices, writing case reports and establishing follow-up sessions.

68  Clinical Practice in Reading; An advanced course for advanced students in reading which will provide them with practical training in the use of proper remedial techniques in order that they might qualify as specialists in reading remediation.

69  Seminar in Organization and Administration of Reading Programs; A course for advanced students in reading who are charged with the total or partial responsibility for organizing and administering reading programs; familiarity with the philosophy, organization, and major research related to teaching programs will be emphasized. Local and area reading authorities will conduct panels and lectures on topics chosen by the students.

70  Advanced Problems in Speech Pathology; A course for advanced students in speech pathology which will provide the student with the necessary training for establishing and operating a speech clinic; case studies on cases chosen by the students.

71  Special Speech Rehabilitation; A course for advanced students in speech pathology which will provide the student with the necessary training for establishing and operating a speech clinic; case studies on cases chosen by the students.

72  Speech Pathology in Practice; A course for advanced students in speech pathology which will provide the student with the necessary training for establishing and operating a speech clinic; case studies on cases chosen by the students.

73  Identification of Types of Cerebral Palsy; A course for advanced students in speech pathology which will provide the student with the necessary training for establishing and operating a speech clinic; case studies on cases chosen by the students.
Group Techniques in Guidance (II,S) 2-3 hours
The role of group procedures in guidance. The implementation and evaluation of group procedures.
PREREQUISITE: Coun. 204

Guidance in the Elementary School (II,S) 3 hours
A study of the principles, practices and dimensions of elementary school guidance.
PREREQUISITE: Ed. 501

EDUCATION ADMINISTRATION AND SUPERVISION

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

School Plant Planning and Operation (II,S) 3 hours
Involves study and practice 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.
PREREQ: 51

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

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

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.
PREREQ: 501

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.
PREREQ: 501

School Finance (II) 3 hours
A study of the sources of school financing: local, state and national. In addition to understanding these areas from a historical point of view, emphasis is placed on modern problems in school finance.

Administration and Staff Personnel (II) 2 hours
This course deals with personnel policies, problems, and issues in the following areas: teacher recruitment, orientation, evaluation, promotion, tenure, retirement, professional organizations, and legal issues. Emphasis will be placed upon the techniques of democratic administration.

Practicum in School Administration (II) 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.
PREREQ: 501 and approval

Advanced Practicum in School Administration and Supervision (II) 3 hours
Continuation of Education 570. Advanced study and practice under guidance in elementary, secondary or general administration and supervision as the interests and needs of the student require.
PREREQ: 570

Administration of Higher Education (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.

College Business Management (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

History: Education and Guidance of the Deaf II (I) 2 hours
A continuation of Special Education 421; focus on various types of speech and hearing problems found in a population of deaf children.

Teaching Language to the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

Teaching Elementary Subjects to the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

Teaching of Speech to the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

General Education of the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

Teaching Elementary Subjects to the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

Teaching of Speech to the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

Teaching Language to the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

Teaching Elementary Subjects to the Deaf II (I) 2 hours
Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.

Teaching of Speech to the Deaf II (I) 2 hours
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Continuation of Special Education 421; with further consideration of material for selection and utilization of teaching materials; emphasis on reading programs.
507 Statistical Methods (I,IIS) 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.

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

509 The Urban School 3 hours
An analysis of the sociological and institutional processes and problems which have bearing upon the education of children in urban settings. A study of the urban school.

510 Research Project 3 hours
Individual or group study and analysis of specific problems in schools.

515 Practicum Internship 2-6 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 schools—language arts, social studies, evaluation procedures, classroom control and curriculum are the focus.
PREREQUISITES: Teacher Corps

521 Thesis (I,IIS) 3 hours
Independent research project written under the supervision of an advisor.

ELEMENTARY

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

519 Diagnostic and Remedial Instruction (I,IS) 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.
PREREQ: 501

520 Improvement of Instruction in Elementary Science 3 hours
This course is designed for graduate students in education who wish to become better informed about the recently developed programs for elementary science. The methods, materials, philosophy, and emphasis in instruction, which are characteristic of these programs.

521 Improvement of Instruction in Elementary Mathematics 3 hours
An examination of the principles, content, methods, and materials of modern mathematics programs for the elementary school. The needs and backgrounds of the students enrolled during the semester are given special consideration.

524 Innovations and Trends in Elementary Education 3 hours
Designed as an advanced study for the purpose of exploring current trends as they develop within the various subject matter areas of the elementary school.
PREREQ: Ed 501

543 Introduction to Curriculum Planning—Elementary (I,IS) 3 hours
A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate and valid methods of curriculum reorganization.

545 Seminar in Supervision of Student Teachers—Elementary (I,IIS) 3 hours
Designed for experienced teachers who are or may be serving as cooperating teachers, and who desire to study student teaching, its aims, procedures, objectives, trends and developments.
PREREQ: 2 years of teaching experience

SECONDARY

480 Principles of Vocational Education 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 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.

524 Counseling Practices 3 hours
An analysis of the theories and practices of counseling.
PREREQUISITE: Cm 522 and Cm 523

525 Counseling Practicum 2-3 hours
Counseling in an approved program under the supervision of a qualified counselor and a guidance professor of the University.
PREREQUISITE: Cm 524 and permission

526 Guidance Internship 2-3 hours
Field experiences in an approved guidance program under the supervision of a qualified counselor and a guidance professor of the University.
PREREQ: Cm 524 and permission

527 Problems of Vocational Education 2 hours
Designed for teachers of business education to develop a better understanding of the purposes, philosophy, current practices and trends in business education.

527 Vocational Curriculum Construction 3 hours
A course designed for teachers, supervisors, coordinators, and administrators of vocational education. The course includes principles, needs, factors and courses that should be considered in developing a vocational education curriculum.

COUNSELING AND GUIDANCE

449 Principles of Guidance 3 hours
Basic principles underlying guidance and counseling practices in the United States. This course is a prerequisite for all other courses in the Guidance and Counseling Department. It is the recommended course for students in other departments who wish to have some understanding of professional guidance and counseling.

540 Introduction to Counseling Theories 3 hours
Study of contemporary theories of counseling, the counseling process and methods.
PREREQUISITE: Cm 490 or department permission

531 Organization and Administration of Guidance Services 3 hours
Selection and training of guidance personnel; organization and administration of the guidance program; adjustment to changing conditions.
PREREQUISITE: Cm 490

532 Occupational and Educational Information 3 hours
The nature and use of occupational and educational information. The process of vocational choice.
PREREQUISITE: Cm 490

533 Individual Analysis 3 hours
Methods and procedures of identifying each person as a unique individual.
PREREQUISITE: Cm 490

534 Counseling Practices 3 hours
An analysis of the theories and practices of counseling.
PREREQUISITE: Cm 522 and Cm 523

535 Counseling Practicum 2-3 hours
Counseling in an approved program under the supervision of a qualified counselor and a guidance professor of the University.
PREREQUISITE: Cm 524 and permission
430 Econometrics: The study and application of modern statistical and mathematical procedures to theoretical economic models.
PREREQUISITES: Permission of instructor...

436 Comparative Economic Philosophy: The mainstreams of political and economic philosophy are examined in order to understand both the political and economic philosophy of comparative economic systems as well as to judge the political and economic philosophy of changing economic policy.
PREREQUISITE: Nine hours of Economics or permission

445 Monetary Theory and Policy: The role of money in the stabilization at high levels of production, employment, income and prices. Emphasis is on contemporary problems.
PREREQUISITE: Econ. 345

506 Economic Education: A study and examination of economic principles and how they can be related to the teacher's classroom presentation. This course is designed to furnish the public school teacher (K-12) with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles.
PREREQUISITE: Econ. 320 or 323, or permission of the Instructor.

523 Macroeconomic Theory: A study of the many refinements of the Keynesian model, including some extensions of this theory, especially in connection with cyclical behavior, investment and economic growth. This is required of graduate Economics and Business students.
PREREQUISITE: Econ. 322 or 423, or permission of the instructor

540 Seminar in American Economic History: These seminars lay stress on individual research on significant problems as indicated by the titles. An introduction to bibliography and demonstration of the methods of historical research will be incorporated in each seminar.
PREREQUISITE: Permission of instructor
### BUSINESS ADMINISTRATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>509</td>
<td>Quantitative Analysis</td>
<td>3 hours</td>
<td>The study of quantitative techniques and models and their application in business decision making.</td>
</tr>
<tr>
<td>510</td>
<td>Business and Society</td>
<td>3 hours</td>
<td>Exploration of the diversity of societal forces and pressures which influence the course of action in the system of American capitalism.</td>
</tr>
<tr>
<td>511</td>
<td>Environmental Science</td>
<td>3 hours</td>
<td>Integration of psychological, sociological, and other behavioral science concepts with business decision making.</td>
</tr>
<tr>
<td>512</td>
<td>Accounting for Management Control</td>
<td>3 hours</td>
<td>Emphasis on maximum utilization of accounting information by the management team.</td>
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<tr>
<td>513</td>
<td>Contemporary Accounting</td>
<td>3 hours</td>
<td>A penetrating study of accounting areas in which uniformity is not present.</td>
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<tr>
<td>514</td>
<td>The Environment of Management</td>
<td>3 hours</td>
<td>A study of the external factors affecting an organization and the decision-making processes involved.</td>
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<tr>
<td>515</td>
<td>Human Relations</td>
<td>3 hours</td>
<td>An interdisciplinary study of the relationship between management and workers.</td>
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<tr>
<td>516</td>
<td>Marketing Policies</td>
<td>3 hours</td>
<td>A study of marketing management approaches and their application in the determination of policies.</td>
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<tr>
<td>517</td>
<td>Promotional Policies</td>
<td>3 hours</td>
<td>Analysis of the role of marketing in the determination of policies employed in solving problems in marketing.</td>
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<tr>
<td>518</td>
<td>Financial Management</td>
<td>3 hours</td>
<td>An analysis of the role of financial management in the determination of policies.</td>
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<tr>
<td>519</td>
<td>Security Analysis</td>
<td>3 hours</td>
<td>An analysis of the role of financial management in the determination of policies.</td>
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### CHEMISTRY

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<tbody>
<tr>
<td>401</td>
<td>Enzymology: The study of enzymes</td>
<td>3 hours</td>
<td>The study of enzymes and their properties.</td>
</tr>
<tr>
<td>402</td>
<td>Biophysics</td>
<td>3 hours</td>
<td>The application of physical principles to biological systems.</td>
</tr>
<tr>
<td>403</td>
<td>Biochemistry</td>
<td>3 hours</td>
<td>The study of the chemical composition and function of biological systems.</td>
</tr>
<tr>
<td>404</td>
<td>Instrumental Analysis</td>
<td>3 hours</td>
<td>An introduction to instrumental methods in the analysis of biological systems.</td>
</tr>
<tr>
<td>405</td>
<td>Advanced Inorganic Chemistry</td>
<td>3 hours</td>
<td>An advanced study of inorganic compounds and their properties.</td>
</tr>
<tr>
<td>406</td>
<td>Physical Chemistry</td>
<td>3 hours</td>
<td>The application of physical principles to the study of chemical systems.</td>
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### ECONOMICS

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<tr>
<td>411</td>
<td>Government and Labor</td>
<td>3 hours</td>
<td>A study of the role of government and labor in the economy.</td>
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<tr>
<td>412</td>
<td>Collective Bargaining</td>
<td>3 hours</td>
<td>An analysis of collective bargaining and its impact on the economy.</td>
</tr>
<tr>
<td>413</td>
<td>Advanced Firm &amp; Industry Theory</td>
<td>3 hours</td>
<td>An advanced study of the theory of the firm and industry.</td>
</tr>
<tr>
<td>414</td>
<td>History of Economic Thought</td>
<td>3 hours</td>
<td>An analysis of the development of economic thought.</td>
</tr>
</tbody>
</table>
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. For certification of school psychologists, many states require teaching certification or two years of successful teaching experience. Students will be expected to plan their programs as follows:

I. Psychological Foundations
   Required: three of the following
   Psych. 421, General Experimental Psychology
   Psych. 423, Physiological Psychology
   Psych. 447, Counseling Theory
   Psych. 505, Learning Theory
   Psych. 521, Experimental Social Psychology

II. Psychological Methods and Techniques
   Required: 12 hours
   One or two of the following:
   Psych. 422, Programming Instruction
   Psych. 424, Nonparametric Statistics
   Psych. 426, Factor Analysis
   Psych. 429, Analysis of Variance
   Psych. 432, Tests and Measurements
   Coun. 522, Occupational and Educational Information
   Coun. 523, Individual Analysis

III. Educational Foundations
   Required: three of the following
   Sped. 414, Speech Pathology: Voice and Articulation
   Sped. 440, Speech Pathology: Rhythm and Symbolization
   Sped. 452, Teaching the Exceptional Child
   Sped. 453, Teaching the Trainable Mentally Retarded
   Sped. 464, Teaching the Educable Mentally Retarded
   Sped. 511, Teaching Reading—Elementary
   Sped. 512, Counseling Practice
   Coun. 525, Guidance Practice
   Coun. 527, Group Techniques in Guidance

IV. Educational Foundations
   Required: three of the following
   Sped. 464, Teaching the Educable Mentally Retarded
   Sped. 465, Teaching the Exceptional Child
   Sped. 466, Teaching the Educable Mentally Retarded
   Sped. 467, Teaching the Educable Physically Handicapped
   Sped. 468, Teaching the Educable Mentally Retarded
   Sped. 469, Teaching the Exceptional Child
   Sped. 470, Teaching the Educable Mentally Retarded
   Sped. 471, Teaching the Exceptional Child
   Sped. 472, Teaching the Educable Mentally Retarded
   Sped. 473, Teaching the Exceptional Child
   Sped. 474, Teaching the Educable Mentally Retarded
   Sped. 475, Teaching the Exceptional Child
   Sped. 476, Teaching the Educable Mentally Retarded
   Sped. 477, Teaching the Exceptional Child
   Sped. 478, Teaching the Educable Mentally Retarded
   Sped. 479, Teaching the Exceptional Child
   Sped. 480, Teaching the Educable Mentally Retarded

Some courses numbered 400 are open to both seniors and graduate students; the same is true of a selected few 300 numbered courses. It is expected as a rule 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 nonliving environment.
   PREREQ: Biol. 144 and Biol. 174
   (I) 4 hours

343 Morphology of Lower Plants: A lecture and laboratory course which covers the ecology, morphology, and evolutionary trends of algae, fungi, and bryophytes.
   PREREQ: Biol. 145
   (I) 3 hours

353 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. 145
   (II) 3 hours

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

374 Histology: The microscopic study of tissues and organs and adaptations, and their functional significance.
   PREREQ: a course in anatomy
   (II) 1.5 hours

384 Embryology: An intensive study of the embryology and development of the vertebrate animal, particularly the human, from gastrulation to organogenesis.
   PREREQ: Biol. 175 and 285
   (II) 4 hours

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

423 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
   (II) 4 hours

454 Taxonomy of Vascular Plants: The identification, nomenclature, and classification of vascular plants, with emphasis on gymnosperms and angiosperms.
   PREREQ: Biol. 102, 145
   (II) 4 hours

464 General Bacteriology: The study of the life processes of microorganisms and their biological and economical significance.
   PREREQ: Biol. 144 and Chem. 214 (concurrent)
   (I) 4 hours

474 Animal Physiology: A comprehensive physical and chemical study of the functions of the animal body systems.
   PREREQ: Mammalian anatomy; eight hours of organic chemistry; eight hours of physics
   (II) 4 hours

484 Parasitology: Taxonomy, morphology, life history, dissemination, and control of the parasitic protozoa, helminths, and arthropods.
   PREREQ: Biol. 175 (offered when feasible)
   4 hours
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 reason 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 EDUCATION ADMINISTRATION AND SUPERVISION

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 the 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 Ed.S. program are the administration seminars (Ed. 600 and 601) and the field project (Ed. 611).

I. Core Professional Courses 42-48 hours
Including work in school finance, school business management, supervision, school law, research, statistics, educational psychology, administration seminars, and field work.

II. Related Professional Courses 12-18 hours
Including selected work in such areas as curriculum, guidance, reading, foundations, and special education.

III. Cognate Courses 9-15 hours
Including selected work in such areas as economics, English, psychology, business administration, and sociology. In some cases, candidates may select cognate courses from graduate level offerings which upon adequate undergraduate preparation

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 filed with 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
THE MASTER OF BUSINESS ADMINISTRATION DEGREE

This is a professional graduate degree designed to provide a broad educational experience for students who wish to assume positions of responsibility in business.

Courses in the program give students an understanding of the principles of management, marketing, finance and proficiency in the use of accounting and statistics as tools for analysis of business problems. At the same time the student becomes aware of the societal, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business.

Emphasis is placed on decision making and problem solving.

Preparation: Applicants for admission to the M.B.A. degree program must have completed satisfactory undergraduate preparatory 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 preparatory areas will be required to make up the deficiency with appropriate undergraduate 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 36 semester hours for completion. Of these, 27 hours must be in the following required courses:

- Econ 521, Advanced Firm and Industry Theory
- Econ 522, Advanced Macroeconomy
- Bus. Adm. 546, Marketing Policies
- Bus. Adm. 547, Law and Regulation of Business
- Bus. Adm. 551, Security Analysis
- Bus. Adm. 552, Seminar in Investment Management
- Bus. Adm. 553, Contempory Accounting

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:

- Bus. Adm. 551, Security Analysis
- Bus. Adm. 552, Seminar in Investment Management
- Bus. Adm. 553, Contemporary Accounting

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

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 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 Nebraska at Omaha (see Admissions). General requirements:

1. Must hold a Master's degree from an accredited institution offering graduate work.
III. Related Professional Courses

*In most programs studies are arranged on a general counseling basis. Areas of frequent specialization, however, are secondary school personnel services. Required courses are determined in relation to the students' previous course work, experience and anticipated work setting. Most programs, however, would fit within the following general framework.

1. Selected Cognate Courses
   - Core Professional Courses
     - Including Introduction to Research and selected work in such areas as education, special education, psychology.
   - Related Professional Courses
     - Including selected work in such areas as guidance and counseling.

II. Related Professional Courses

- MAJOR IN ELEMENTARY SCHOOL ADMINISTRATION
  - Selected Cognate Courses
    - History and Philosophy of Education
  - Related Professional Courses
    - Administration and Supervision in the Elementary School
    - Administration and Staff Personnel
    - Practicum in Administration

III. Selected Courses

- MAJOR IN SECONDARY SCHOOL ADMINISTRATION
  - Selected Cognate Courses
    - History and Philosophy of Education
  - Required Courses
    - History and Philosophy of Education

- MAJOR IN COUNSELING AND GUIDANCE

Programs in Counseling and Guidance are arranged on an individual basis. Areas of frequent specialization, however, are secondary school counseling, general counseling and student personnel services. Required courses are determined in relation to the students' previous course work, experience and anticipated work setting. Most programs, however, would fit within the following general framework.

1. Only students with teaching experience will receive institutional endorsement to serve as school administrators.

**MAJOR IN TEACHING THE MENTALLY RETARDED**

*I. Required Courses
- Ed. 591, Introduction to Research
- Ed. 592, Teaching the Exceptional Child
- Sp. 423, Teaching Speech to the Deaf
- Sp. 424, Teaching Language to the Deaf
- Sp. 425, Observation and Student Teaching
- Sp. 426, Methods of Teaching Speech Reading
- Sp. 427, Teaching Elementary School Subjects to the Deaf
- Sp. 431, Hearing Tests and Auditory Training
- Sp. 432, Auditory and Speech Mechanisms

*II. Directed Electives in Related Areas
- Selected courses are education, special education, counseling, psychology, sociology and biology.

Prerequisite: Teacher Certificate or equivalent at the undergraduate or graduate level.

* Student is responsible for prerequisites in any elective areas.

**MAJOR IN SPEECH PATHOLOGY**

*I. Required Courses
- Ed. 591, Introduction to Research
- Sp. 423, Teaching Language to the Deaf
- Sp. 551, Advanced Educational Psychology
- Sp. 552, Advanced Problems in Speech Pathology

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**MINIMUM TOTAL CREDIT HOURS 36**
Students must pass the two qualifying examinations before attempting the comprehensive examinations. These examinations will be given twice annually, during the months of January and May. Each examination will be given on a separate day. Students will take a minimum of two comprehensive examinations during the examination period.

C. General policies
Students should be fully prepared before attempting either the qualifying or comprehensive examinations. Permission to take any examination again after an initial failure may be granted by the departmental faculty on written petition by the student.

WITH A MAJOR IN ECONOMICS
An applicant for admission to the program for the Master of Science in economics must have the equivalent of 15 undergraduate semester hours in economics.

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 10 hours of the required 36 hours must be approved at the 500-level or above. In lieu of a thesis, economics 598 and 599 are included in the 36 hours total required. Students must also satisfactorily complete Economics 521, 523, and 545. It is expected that the candidate for the Master of Science degree in economics will concentrate on matters of concern in the Omaha metropolitan region. This is also a degree where teachers K-12 grades may concentrate on research concerning economic education in the schools.

WITH A MAJOR IN MATHEMATICS
The course requirements may be met by completing 24 semester hours of mathematics from courses numbered above 400 with 12 of the 24 semester hours selected from courses numbered above 500; an additional 12 semester hours must be selected either from mathematics courses numbered above 400 or from graduate courses in cognate fields.

The final comprehensive examination shall be passed covering the general areas of: algebra; analysis; foundations; geometry or topology; and applications.

WITH A MAJOR IN EDUCATIONAL PSYCHOLOGY OR INDUSTRIAL PSYCHOLOGY

Entrance Requirements: 1. Educational Psychology. A minimum of 15 hours undergraduate work beyond the introductory course, and including a course in Basic Statistics and Psychology of Learning are required. 2. Industrial Psychology. A minimum of 15 hours of undergraduate psychology courses beyond the introductory course and including Basic Statistics and a laboratory course in Experimental Psychology are required.

Degree Requirements: The overall graduate work course requirement for both M.S. programs includes either 30 hours in psychology, or 24 hours in psychology plus 12 hours graduate work in a related minor field. Psychology 501 (History of Psychology), and either Psychology 415 (Factor Analysis) or Psychology 416 (Analysis of Variance) are required of all students. At least one of these required courses must be taken during the first 9 hours of graduate work. Additional required courses may be designated by the department. These will ordinarily include up to 3 hours of Psychology 595 (Practicum in Psychology) and in addition, in the Educational Psychology program, Psychology 533 and 554 (Individual Tests).

A six-hour written comprehensive examination is required of all students and will be identical with the comprehensive examination taken by students in the M.A. program who elect to specialize in one of these two areas of psychology.

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 proficiencies 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 towards eligibility for teacher certification. Those wishing to meet national or state certification requirements for speech therapists should consult with the departmental adviser before planning programs of study.

WITH A MAJOR IN AN AREA OF EDUCATION
Students may major in the following fields: elementary education, counseling and guidance, education administration and supervision, secondary education, reading, special education (includes speech pathology, education for the deaf or mentally retarded), and college business management. Minor fields include: Foundations of education (for those majoring in academic fields), elementary education, reading, secondary education, and others. Students pursuing a Master of Science degree with a major in education shall be expected to take selected courses in areas outside the field of education as indicated in the following program outlines. The 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

<table>
<thead>
<tr>
<th>I. Selected Cognate Courses</th>
<th>6-9 hours</th>
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<tbody>
<tr>
<td>II. Required Courses</td>
<td>21 hours</td>
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<tr>
<td>Ed 501, Introduction to Research</td>
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<tr>
<td>Ed 502, History and Philosophy of Education</td>
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<td>Ed 510, Diagnostic and Remedial Instruction</td>
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<td>Ed 520, Innovations and Trends in Elementary Education</td>
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<td>Ed 542, Introduction to Curriculum Planning—Elementary</td>
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<td>Ed 544, Seminar in Elementary Education</td>
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<td>Ed 559, Administration and Supervision in Elementary Schools</td>
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| III. Selected Courses | To be determined by student and his adviser |

MAJOR IN SECONDARY EDUCATION

<table>
<thead>
<tr>
<th>I. Selected Cognate Courses</th>
<th>12-18 hours</th>
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<tr>
<td>II. Required Courses</td>
<td>9 hours</td>
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<tr>
<td>Ed 501, Introduction to Research</td>
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<tr>
<td>Ed 502, History and Philosophy of Education</td>
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<td>Ed 503, Educational Seminar</td>
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<td>III. Selected Courses</td>
<td>9-15 hours</td>
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| To be determined by student and his adviser |
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 proficiencies 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/or 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 program.

WITH A MAJOR IN ECONOMICS

An applicant for admission to the program for the Master of Arts in Economics must have the equivalent of 15 undergraduate semester hours in Economics.

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 15 hours of the required 30 hours, including thesis, must be courses approved at the 500-level or above. Students must also satisfactorily complete Economics 521, 532 and 545.

THE MASTER OF SCIENCE DEGREE

The Master of Science degree is typically a 36 hour, non-thesis program, with majors in a number of areas of education and special education, psychology, applied sociology, geography, mathematics, engineering, and economics.

WITH A MAJOR IN BIOMETRY

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 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 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.

WITH A MAJOR IN GEOGRAPHY

The applicant for admission to the graduate program in geography must present a minimum of 15 undergraduate semester hours in geography including physical, economic, political, and cartography.

Degree Requirements: The degree requires a minimum of 36 semester hours in geography courses numbered 400 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 400 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 or Physiography of North America, and Field Geography.

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 301-302 and a minimum of 24 additional graduate semester hours. In addition, the student must complete satisfactorily six semester hour equivalents in a supervised work practicum related to his academic area of concentration and write an acceptable report on the experience. Students whose career objectives are in the social welfare professions are advised to apply for admission to the Graduate School of Social Work at the University of Nebraska at Lincoln.

The Master of Arts degree is preferable as preparation for college level teaching and continued scholarly work, the Master of Science as preparation for field or action application of sociology. Both degrees require the student to demonstrate proficiency in the subject by means of the qualifying and comprehensive examinations.

Examinations

Both the M.A. and M.S. degree programs in sociology require the student to demonstrate proficiency in the subject by means of the following qualifying and comprehensive examinations.

A. Qualifying examinations

Qualifying examinations on sociological concepts and statistics must be taken by all full-time graduate students during their first year of graduate work. Part-time students must complete these examinations before they complete more than 15 hours of course work. These qualifying examinations will be given three times annually, during the months of October, January and May. Nine hours of course work and successful completion of the qualifying examinations are prerequisite for application for candidacy for the degree.

B. Comprehensive examinations

Comprehensive examinations must be taken by all graduate students. There will be four examinations covering the following areas:

- Social Organization and Processes
- Methods of Social Research
- Sociological Theory
- Social Psychology
DEGREE PROGRAMS AND PROGRAMS
OF INSTRUCTION

The Master's degree or the Specialist in Education degree is conferred by the Board of Regents upon recommendation of the Graduate Faculty, and with the final approval of the faculty of the University of Nebraska at Omaha.

The following departments offer work toward both the Master of Arts and Master of Science Degrees: biology, counseling and guidance, economics, education administration and supervision, elementary education, geography, mathematics, psychology, secondary education, sociology, and special education. Some departments offer a single degree, the Master of Arts: English, history, and speech and drama; engineering students may receive the Master of Science. The Master of Business Administration (MBA) is a recently initiated addition to graduate study at the University, with first graduates in January, 1968.

The Specialist in Education degree is a two-year program of graduate study. The program was offered for the first time in the 1964-65 school year.

THE MASTER OF ARTS DEGREE

WITH MAJORS IN BIOLOGY, COUNSELING AND GUIDANCE, ECONOMICS, EDUCATION ADMINISTRATION AND SUPERVISION, ELEMENTARY EDUCATION, ENGLISH, GEOGRAPHY, HISTORY, MATHEMATICS, PSYCHOLOGY, SECONDARY EDUCATION, SOCIOLOGY, SPECIAL EDUCATION, SPEECH AND DRAMA.

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

1. A major of 24 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.

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.

WITH A MAJOR IN ENGLISH

To be admitted to graduate study in English, a student should have completed at least eighteen credit hours in undergraduate English courses above the freshman level with an average grade of "B" or above.

All candidates for Master's degrees in English are required to take English 501 (Introduction to Literary Research), to pass a proficiency examination in French or German, and to follow one of the following plans of study:

I. A total of 24 credit hours in course work, including at least nine hours in seminar courses, and a thesis on an approved topic accepted after oral defense before a faculty committee.

II. A total of 36 credit hours in course work, including at least twelve hours in seminar courses, and a written comprehensive examination prepared and judged by a faculty committee.

WITH A MAJOR IN GEOGRAPHY

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

Degree Requirements: The degree requires a minimum of 36 semester hours in geography courses numbered 400 and 500, including 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 Field Geography.

WITH A MAJOR IN PSYCHOLOGY

Admission Requirements: An applicant for admission to this program must present a minimum of 15 undergraduate semester hours of psychology courses beyond the introductory course. These should include a course in Basic Statistics, The Psychology of Learning, and a laboratory course in Experimental Psychology.

Degree Requirements: To complete the M.A. degree in psychology, the student must present 30 hours of graduate course work in psychology, or 21 hours in psychology plus 9 hours in a related minor field. Up to 6 hours of thesis credit are to be included in this total. Psychology 501 (History of Psychology), and either Psychology 415 (Factor Analysis), or Psychology 416 (Analysis of Variance), are required of all graduate students in this program, and one of these required courses must be taken during the first 9 hours of graduate work. The remainder of the student's course work is elective, but must be planned in conference with his academic adviser, in order to meet the individual needs and interests of the student. The student may emphasize one of the following areas: educational, general-experimental, industrial, or quantitative psychology.
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)...................................................... $5.00

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
Associate Title ................................................................. $7.50
Degree in absentia—additional................................................ $5.00

OTHER FEES, CHARGES AND DEPOSITS

Matriculation and change of college......................................... $10.00
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............................................... $2.50
Change of Academic Record—per change...................................... $2.50
Removal of incomplete, grade change, etc.................................... $2.50
Transcript Evaluation (transfer students and Graduate College)............. $1.00
Teacher Placement Registration................................................. $1.00
Transcript of Academic Record—per copy..................................... $5.00
Thesis/Research Students.......................................................... $10.00
Deposit for additional copies—$4.00.......................................... $10.00
Thesis Fee.............................................................................. $12.00
Bad Check (insufficiency or no-fund check) minimum........................ $5.25

Insufficient funds or no-fund checks are considered to be 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...................................... $1.00
A.F.R.O.T.C. Uniform Deposit (refundable).................................... $1.00
Key Deposit (if authorized) (refundable)......................................... $1.00

Tests and Examinations:
Guidance and Placement—at scheduled times.................................. $5.00
Special proficiencies, advanced standing, or out of schedule................ $5.00
Cost of credit in the College of Continuing Studies—$20.00 of this amount may be applied toward tuition if test score is satisfactory—per test $25.00

Guidance Testing and Counseling:
Fees for these services depend upon tests administered and extent of counseling. Inquire in room Adm. 212 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 class, accompanied by written approval of the adviser and the Dean of Student Personnel, with the Registrar immediately upon dropping any course.

Students paying tuition and fees on a deferred payment basis or under any other loan, granted by the University, who withdraw before the ac-


count is paid in full are not relieved from payment of the balance due. Refunds will first be applied to unpaid balances, and any remaining balance must be paid in cash.

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 week....................................................... $75
Withdrawal during remainder of the 1st week................................. $50
Withdrawal during 2nd week....................................................... $25
Withdrawal after 2nd week.......................................................... $0

CREDIT COURSES (8 WEEK SESSION)

Withdrawal before classes start................................................ $100
Withdrawal during 1st week....................................................... $75
Withdrawal during 2nd week....................................................... $50
Withdrawal during 3rd week....................................................... $25
Withdrawal during 4th 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 during 3rd week....................................................... $25
Withdrawal during 4th or 5th week............................................. $0

(Less than 10 weeks)
Withdrawal before classes start................................................ $100
Withdrawal before 1st class......................................................... $50
Withdrawal before 2nd class......................................................... $0

RESIDENT STUDENTS

A student's right to classification as a resident for purposes of registration in a state educational institution must be determined under the provisions of Nebraska Revised Statutes of 1943, Sec. 85-502 (R.S. Supp., 1965). (See General Catalog.) Any student who has been classified as a nonresident who believes he can qualify as a resident should contact the Registrar's Office.
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 not 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 and Master of Business Administration 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 Educational 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 see his adviser 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 of Business Management program excepted.)

Exceptions to the above general and special rules and regulations may be made in meritorious 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. Arrange 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 of administration for the Comprehensive Examination. This applies to all degree candidates whose work requires written comprehensives. The Graduate College must be informed of your intent at the same time.
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 full calendar year of March in the spring semester. 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.

TUITION AND FEES

Student fees are payable in full at the time of registration. Registration is not complete unless 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.

Students in need of loans, deferred payments, or other financial assistance must consult the Student Aid Officer in room Adm. 240, at least two weeks prior to the start of classes.

INSTRUCTION

Tuition, per semester credit hour:
Undergraduate, Graduate or Audit
Resident of Nebraska (Summer 1968) .................................................. $20.00
Undergraduate, Graduate or Audit
Nonresident ................................................................. 40.00

Applied Music: Voice, Vocal Ensemble except pipe organ
(Fee may be waived by the Head of the Music Department)
One semester credit hour—additional fee ................................. 10.00
Two semester credit hours (same instrument) additional fee ....... 20.00
Non-credit: 16 lessons ............................................... 20.00
9 lessons ........................................ 15.00
Public Health Nursing—additional fee .................................. 25.00
TV Classroom (per 3 hr. course—includes materials) .............. 30.00
Conferences and Non-credit courses .................................. 35.00

Fees are determined for each offering on an individual basis:
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 graduate 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 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 advisor. 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 comprehensive 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.

For the degree Master of Business Administration, the final comprehensive examination will be both written and oral. The written portion will be administered on dates corresponding to those for the M.S. degree.

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.

TIME LIMIT FOR ALL MASTER’S DEGREES

In evaluating credits earned toward an advanced degree, credits dating back five years or more are subject to reduction in value as determined by the Graduate Faculty. Once a student has been admitted to the Graduate College, he is expected to complete the requirements for the degree within a period of five years. Time spent in the military service of the United States may be excepted in the application of this rule.
CERTIFICATION OR PROFESSIONAL GROWTH

Students who wish to take courses for graduate credit to be used for certification purposes or 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 Certificate, with 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 INTO 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 the 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, 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 supported by a committee. The thesis provides an opportunity for the student to obtain firsthand 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 after the student has initially registered for the thesis credit he must inform the Graduate Office concerning the progress of his thesis. 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 20-pound weight; the other two copies 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 to conduct the oral
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 13 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 prerequisite 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 will 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.

University of Nebraska at Omaha
The Graduate College

1. He has an earned doctorate or the equivalent; or, if a doctorate is not usual in the field in which he teaches, a terminal degree and special competence in the field being taught.
2. He has demonstrated ability in scholarly research or professional development activities.
3. He has three years teaching experience at the college or university level beyond graduate assistantships or part-time instructorships, or equivalent experience.
4. He holds a full-time appointment at the University with faculty rank.
5. He has a rank of assistant professor or higher.

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 unexcelled opportunities for supervised educational experiences at the graduate level in conjunction with the degree program. The stipends range upwards from $2400. 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 Kappa, a national sorority 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 submitted in the Graduate Office by March 1 of each year to be considered for the following academic year. Loans are also available to qualified graduate students.

ORGANIZATIONS

Phi Delta Gamma is a national sorority for graduate 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 students in Business Administration. Membership is by invitation.

Psi Chi is a national honorary association for graduate students in Psychology. Membership is by invitation.

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

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.

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 Nebraska at Omaha.
2. Present two (2) official transcripts of all undergraduate (and graduate, if any) college work previously taken. (Graduates of the University of Nebraska at 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.")
GRADUATE LECTURERS

D. CRAIG AFFLECK
Ph.D., Northwestern University, 1954
CRAIG FULLERTON
Ph.D., State University of Iowa, 1955
RENE HLAVAC
Ed.D., University of Nebraska, 1962
RANDALL T. KLEMME
Ph.D., Iowa State College, 1947
WALTER PARKER MOORE, JR.
Ph.D., University of Illinois, 1964
EDWIN HUGO PARRISH
Ed.D., University of Nebraska, 1955
NEILS WODDER
Ed.D., University of Nebraska, 1958

ACCREDITED STANDING

The University of Nebraska at Omaha is 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 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.

University of Nebraska at Omaha

GRADUATE COLLEGE

Elton S. Carter, Dean
Robert C. O'Reilly, Assistant 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 College of Graduate Studies 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 Nebraska at 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, Master of Science, Master of Business Administration, or Education Specialist 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 adviser, the student must exercise his own initiative to mastery 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.

Through 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.

A member of a department offering courses for graduate credit, upon recommendation of the Dean of the College in which he teaches and of the Dean of the Graduate College, with concurrence of the appropriate Department Head, shall be nominated for membership in the Graduate Faculty by the Academic Standards and Curriculum Committee of the Graduate College if:
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550 Dramatic Theory and Criticism (1) 3 hours
For advanced students of dramatic literature. The course will explore the important dramatic theories and criticism from Aristotle to contemporary drama.
PREREQ: Speech 229 or permission of instructor

601 Thesis 1-3 hours each
Independent research project written under the supervision of an advisor.