1972

Graduate Academic Catalog (1972-1973)

University of Nebraska at Omaha

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### OFFICIAL CALENDAR

#### SUMMER 1972

<table>
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<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
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<tbody>
<tr>
<td>June 9-10</td>
<td>Regular Registration.</td>
</tr>
<tr>
<td>June 12-July 14</td>
<td>First Session.</td>
</tr>
<tr>
<td>June 12-Aug. 3</td>
<td>Evening Session.</td>
</tr>
<tr>
<td>June 17</td>
<td>Last day for submitting all admission credentials for admission to second summer session.</td>
</tr>
<tr>
<td>July 4</td>
<td>Holiday (University closed—day and evening.)</td>
</tr>
<tr>
<td>July 17-Aug. 18</td>
<td>Second Session.</td>
</tr>
<tr>
<td>July 24</td>
<td>Last day for filing applications for degrees to be conferred August 31, 1972.</td>
</tr>
<tr>
<td>Aug. 15</td>
<td>Signed and Approved Theses due in the Graduate Office.</td>
</tr>
</tbody>
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#### FIRST SEMESTER 1972-73

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>July 15</td>
<td>Last day for submitting all admissions credentials for admission to the First Semester 1972-73.</td>
</tr>
<tr>
<td>Aug. 28-30</td>
<td>Final registration and changes.</td>
</tr>
<tr>
<td>Aug. 31</td>
<td>Official beginning of first semester at 0730. (Day and evening classes begin.)</td>
</tr>
<tr>
<td>Aug. 31</td>
<td>Late registration begins.</td>
</tr>
<tr>
<td>Sept. 4</td>
<td>Labor Day. University closed. No day or evening classes.</td>
</tr>
<tr>
<td>Sept. 7</td>
<td>Last day up to 1800 for registering for a class, adding a class to a schedule, changing a class from “audit” to “credit,” or changing a “CR/NC” class registration to a grade registration.</td>
</tr>
<tr>
<td>Sept. 23</td>
<td>Band Day.</td>
</tr>
<tr>
<td>Oct. 6</td>
<td>Homecoming. No day classes after 1230. (Evening classes meet as usual.)</td>
</tr>
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<td>Oct. 7</td>
<td>Homecoming Football Game.</td>
</tr>
<tr>
<td>Oct. 8</td>
<td>Founders’ Day.</td>
</tr>
<tr>
<td>Oct. 16</td>
<td>Six-week reports on first-semester Freshmen due in Academic Deans’ Offices by 1800.</td>
</tr>
<tr>
<td>Oct. 21</td>
<td>Parents’ Day.</td>
</tr>
<tr>
<td>Oct. 26</td>
<td>Last day a class may be dropped in order to receive a “W.” Last day a class may be changed from “credit” to “audit,” or changed from a grade registration to “CR/NC.”</td>
</tr>
<tr>
<td>Nov. 20</td>
<td>Last day for filing applications for degrees to be conferred December 15, 1972.</td>
</tr>
<tr>
<td>Nov. 22</td>
<td>(Wednesday) Thanksgiving recess begins at 2140.</td>
</tr>
<tr>
<td>Nov. 27</td>
<td>(Monday) Classes resume at 0730.</td>
</tr>
<tr>
<td>Nov. 29</td>
<td>Signed and Approved Theses due in the Graduate Office.</td>
</tr>
<tr>
<td>Dec. 14</td>
<td>“Dead” Day. No day classes nor student activities. (Evening classes meet as usual.)</td>
</tr>
<tr>
<td>Dec. 15</td>
<td>Last day for filing admissions credentials for admission to the First Semester 1972-73.</td>
</tr>
<tr>
<td>Dec. 15-22</td>
<td>Final Examinations.</td>
</tr>
<tr>
<td>Dec. 16</td>
<td>Mid-Year Commencement. (Ceremony only)</td>
</tr>
<tr>
<td>Dec. 22</td>
<td>Official end of first semester.</td>
</tr>
</tbody>
</table>

#### SECOND SEMESTER 1972-73

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>Jan. 15-17</td>
<td>Final registration and changes.</td>
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<tr>
<td>Jan. 18</td>
<td>Official beginning of second semester at 0730. (Day and evening classes begin.)</td>
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<tr>
<td>Jan. 18</td>
<td>Late registration begins.</td>
</tr>
<tr>
<td>Jan. 25</td>
<td>Last day up to 1800 for registering for a class, adding a class to a schedule, changing a class from “audit” to “credit,” or changing a “CR/NC” class registration to a graded one.</td>
</tr>
<tr>
<td>March 15</td>
<td>Last day a class may be dropped in order to receive a “W.” Last day a class may be changed from “credit” to “audit,” or changing a graded class registration to “CR/NC.”</td>
</tr>
<tr>
<td>March 24</td>
<td>Spring vacation begins at noon.</td>
</tr>
<tr>
<td>April 2</td>
<td>Classes resume at 0730.</td>
</tr>
<tr>
<td>April 13</td>
<td>Last day for filing applications for degrees to be conferred May 19, 1973.</td>
</tr>
<tr>
<td>May 2</td>
<td>Signed and approved theses due in the Graduate Office.</td>
</tr>
<tr>
<td>May 4</td>
<td>Student Holiday. No day classes. (Evening classes meet as usual.)</td>
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<tr>
<td>May 7</td>
<td>“Dead” Day. No day classes nor student activities. (Evening classes meet as usual.)</td>
</tr>
<tr>
<td>May 15</td>
<td>Last day for filing admissions credentials for admission to the First Summer Session 1973.</td>
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<tr>
<td>May 8-15</td>
<td>Final examinations.</td>
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<td>May 19</td>
<td>Official end of second semester.</td>
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<tr>
<td>May 26</td>
<td>Sixty-fourth Commencement. Saturday.</td>
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<td>May 28</td>
<td>Alumni Achievement Day.</td>
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<tr>
<td>June 8-9</td>
<td>Legal Holiday. University closed. (Memorial Day)</td>
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#### SUMMER SESSIONS 1973

<table>
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<th>Date</th>
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<tr>
<td>June 8-9</td>
<td>Regular Registration.</td>
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<td>June 11-17</td>
<td>First Session.</td>
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<tr>
<td>June 11-Aug. 2</td>
<td>Evening Session.</td>
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<tr>
<td>June 22</td>
<td>Last day for filing admissions credentials for admission to the Second Summer Session 1973.</td>
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<tr>
<td>July 4</td>
<td>Holiday. (University closed—day and evening.)</td>
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<td>July 16-22</td>
<td>Second Session.</td>
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<td>July 30</td>
<td>Last day for filing applications for degrees to be conferred August 31, 1973 (No ceremony).</td>
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<tr>
<td>Aug. 15</td>
<td>Signed and approved theses due in the Graduate Office.</td>
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UNIVERSITY OF NEBRASKA AT OMAHA

The Board of Regents
Edward Schwartzkopf, Lincoln, Chairman
J. G. Elliott, Scottsbluff
James H. Moylan, Omaha
Kermit Hansen, Omaha
Robert Prokop, M.D., Papillion
Robert Koefoot, M.D., Grand Island
Robert Raun, Minden
Kermit Wagner, Schuyler
Gene A. Budig, Ed.D., Acting Corporation Secretary

ADMINISTRATION
D. B. Varner, M.S., President
John V. Blackwell, Ph.D., Interim Chancellor
University of Nebraska at Omaha
Philip Milo Bail, Ph.D., LL.D., President Emeritus
William L. Gaines, Ph.D., Dean of Academic Affairs
Robert C. O'Reilly, Ed.D., Director of Grants Development and Institutional Research
Donald J. Pflasterer, M.Ed., Dean of Student Personnel
Jay W. Cox, M.A., Director of Admissions
Virgil V. Sharpe, B.A., Registrar
Harold D. Keefer, B.S., Director of Business and Finance

THE UNDERGRADUATE COLLEGES
Richard L. Lane, Ph.D., Interim Dean, The College of Arts and Sciences
Bartholomew Denney, Ph.D., Interim Dean, The College of Engineering and Technology
Paul C. Kennedy, Ed.D., Dean, The College of Education
George T. Harris, Ph.D., Interim Dean, The College of Business Administration
William T. Utley, M.A., Dean, The College of Continuing Studies
Director, Summer Sessions
Elroy J. Steele, Ph.D., Interim Dean, School of Public Affairs and Community Service

THE GRADUATE COLLEGE
Elton S. Carter, Ph.D., Dean and Chairman of the Graduate Faculty

THE GRADUATE COLLEGE

Robert Koefoot, M.D., Grand Island
Robert Raun, Minden
Kermit Wagner, Schuyler
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William T. Utley, M.A., Dean, The College of Continuing Studies
Director, Summer Sessions
Elroy J. Steele, Ph.D., Interim Dean, School of Public Affairs and Community Service

THE GRADUATE COLLEGE
Elton S. Carter, Ph.D., Dean and Chairman of the Graduate Faculty

University of Nebraska at Omaha

GRADUATE FACULTY
1972-73

ROBERT L. ACKERMAN .......................................................... Elementary Education
Ed.D., University of Nebraska-Lincoln, 1966; Professor

PAUL B. ACKERSON .............................................................. Secondary Education
Ed.D., Oklahoma State University, 1963; Professor

FREDERICK W. ADRIAN ......................................................... History
Ph.D., Ohio State University, 1942; Professor

JAMES C. AKERS ................................................................. Special Education (Reading)
Ed.D., Oklahoma State University, 1966; Assistant Professor

CLIFFORD ANDERBERG ......................................................... Philosophy and Religion
Ph.D., University of Wisconsin, 1953; Professor and Chairman of Department

AARON ARMYFIELD ............................................................. Special Education
Ed.D., Northern Colorado University, 1964; Associate Professor and Chairman of Department

BRUCE P. BAKER II ............................................................. English
Ph.D., Texas Christian University, 1968; The Albert H. Jeffers Professor and Chairman of Department

GEORGE BARGER ............................................................... Sociology
Ph.D., University of Missouri, 1964; Professor and Chairman of Department

NICHOLAS BARISS ............................................................... Geography
Ph.D., Clark University, 1967; Associate Professor

PAUL L. BECK ................................................................. History
Ph.D., University of Nebraska-Lincoln, 1961; Professor

*GORDON BECKER ............................................................. Psychology
Ph.D., University of Pittsburgh, 1958; Professor

JOSEPH V. BENAK ............................................................. Civil Engineering
Ph.D., University of Illinois, 1967; Associate Professor

ROBERT W. BENECKE .......................................................... Business Administration
Ph.D., University of Colorado, 1966; Professor

KENNETH BERRY ............................................................... Psychology
Ph.D., Texas Christian University, 1964; Assistant Professor of Medical Psychology, College of Medicine (Joint Appointment)

HOLLIE B. BETHEL ............................................................ Elementary Education
Ed.D., University of Colorado, 1957; Professor and Chairman of Department

JOHN V. BLACKWELL .......................................................... Art
Ph.D., State University of Iowa, 1977; Professor and Interim Chancellor

RICHARD BLAKE .............................................................. Counseling and Guidance
Ed.D., University of Missouri, 1956; Professor and Chairman of Department

WILLIAM L. BLIZEK ........................................................... Philosophy
Ph.D., University of Missouri, 1950; Assistant Professor

M. JEAN BRESSLER .......................................................... Secondary Education
Ph.D., University of Nebraska-Lincoln, 1965; Associate Professor

*BARBARA L. BRILHART .................................................... Secondary Education
Ph.D., Pennsylvania State University, 1966; Associate Professor

*JOHN K. BRILHART .......................................................... Speech
Ph.D., Pennsylvania State University, 1962; Professor and Chairman of Department

MERLE E. BROOKS ............................................................. Biology
Ph.D., University of Colorado, 1956; Professor

University of Nebraska at Omaha

GRADUATE FACULTY
1972-73

ROBERT L. ACKERMAN .......................................................... Elementary Education
Ed.D., University of Nebraska-Lincoln, 1966; Professor

PAUL B. ACKERSON .............................................................. Secondary Education
Ed.D., Oklahoma State University, 1963; Professor

FREDERICK W. ADRIAN ......................................................... History
Ph.D., Ohio State University, 1942; Professor

JAMES C. AKERS ................................................................. Special Education (Reading)
Ed.D., Oklahoma State University, 1966; Assistant Professor

CLIFFORD ANDERBERG ......................................................... Philosophy and Religion
Ph.D., University of Wisconsin, 1953; Professor and Chairman of Department

AARON ARMYFIELD ............................................................. Special Education
Ed.D., Northern Colorado University, 1964; Associate Professor and Chairman of Department

BRUCE P. BAKER II ............................................................. English
Ph.D., Texas Christian University, 1968; The Albert H. Jeffers Professor and Chairman of Department

GEORGE BARGER ............................................................... Sociology
Ph.D., University of Missouri, 1964; Professor and Chairman of Department

NICHOLAS BARISS ............................................................... Geography
Ph.D., Clark University, 1967; Associate Professor

PAUL L. BECK ................................................................. History
Ph.D., University of Nebraska-Lincoln, 1961; Professor

*GORDON BECKER ............................................................. Psychology
Ph.D., University of Pittsburgh, 1958; Professor

JOSEPH V. BENAK ............................................................. Civil Engineering
Ph.D., University of Illinois, 1967; Associate Professor

ROBERT W. BENECKE .......................................................... Business Administration
Ph.D., University of Colorado, 1966; Professor

KENNETH BERRY ............................................................... Psychology
Ph.D., Texas Christian University, 1964; Assistant Professor of Medical Psychology, College of Medicine (Joint Appointment)

HOLLIE B. BETHEL ............................................................ Elementary Education
Ed.D., University of Colorado, 1957; Professor and Chairman of Department

JOHN V. BLACKWELL .......................................................... Art
Ph.D., State University of Iowa, 1977; Professor and Interim Chancellor

RICHARD BLAKE .............................................................. Counseling and Guidance
Ed.D., University of Missouri, 1956; Professor and Chairman of Department

WILLIAM L. BLIZEK ........................................................... Philosophy
Ph.D., University of Missouri, 1950; Assistant Professor

M. JEAN BRESSLER .......................................................... Secondary Education
Ph.D., University of Nebraska-Lincoln, 1965; Associate Professor

*BARBARA L. BRILHART .................................................... Secondary Education
Ph.D., Pennsylvania State University, 1966; Associate Professor

*JOHN K. BRILHART .......................................................... Speech
Ph.D., Pennsylvania State University, 1962; Professor and Chairman of Department

MERLE E. BROOKS ............................................................. Biology
Ph.D., University of Colorado, 1956; Professor
JOSEPH G. DUNN  Educational Foundations  Ed.D., University of Missouri, 1955; Professor

LAWRENCE E. EHLERS  General Engineering  Ph.D., Oklahoma State, 1969; Registered Professional Engineer; Associate Professor and Chairman of Department

KENNETH ELLER  Foreign Languages  Ph.D., University of Kansas, 1969; Assistant Professor

*ROBERT J. ELLINGSON  Psychology  Ph.D., Northwestern University, 1950; M.D., University of Nebraska—Lincoln, 1963; Professor of Medical Psychology and of Physiology, College of Medicine (Joint Appointment)

JOHN T. FARR  Political Science  Ph.D., University of Texas, 1969; Associate Professor

*JOHN W. FLOCKEY  Physics  Ph.D., University of Nebraska—Lincoln, 1969; Assistant Professor

RICHARD B. FLYNN  Secondary Education  Ed.D., Columbia University, 1970; Associate Professor

FRANKLIN S. FORBES  Business Administration (Law)  J.D., University of Iowa, 1963; Professor

JOSEPH A. FREIVALD  Mathematics  Ph.D., University of Oklahoma, 1969; Assistant Professor

EUGENE FREUND  Educational Foundations  Ph.D., Wayne State University, 1969; Associate Professor

CRAG FULLERTON  Special Education  Ph.D., State University of Iowa, 1955; Graduate Lecturer

DALE GAEDELT  History  Ph.D., Ohio State University, 1969, Assistant Professor

WILLIAM L. GAINES  History  Ph.D., Yale University, 1951; Professor and Dean, Academic Affairs

*MARGARET GESSMAN  Mathematics  Ph.D., Montana State College, 1966; Assistant Professor

RICHARD E. GIBSON  Civil Engineering  Ph.D., University of Colorado, 1969; Registered Professional Engineer; Professor and Chairman of Department

G. WAYNE GLIDDEN  Educational Foundations  Ed.D., University of Nebraska—Lincoln, 1961; Professor and Chairman of Department

DONALD J. GRANDGENETT  Secondary Education  Ed.D., Arizona State University, 1967; Associate Professor

RAYMOND A. GUENTHER  Physics  Ph.D., Illinois Institute of Technology, 1963; Associate Professor

ERT J. GUM  History  Ph.D., Louisiana State University, 1963; Professor

GEORGE F. HADDIX  Mathematics  Ph.D., Iowa State University, 1969; Assistant Professor

PAUL A. HAEDER  Mathematics  Ph.D., Iowa State University, 1968; Professor and Chairman of Department

*NORMAN H. HAMM  Psychology  Ph.D., Kent State University, 1968; Associate Professor

ROBERT D. HARPER  English  Ph.D., University of Chicago, 1949; Professor
SCOTT HARRINGTON
Ph.D., University of Colorado, 1971; Assistant Professor
Counseling and Guidance

GEORGE T. HARRIS
Ph.D., State University of Iowa, 1953; The Frederick W. Kayser Professor of Finance, Interim Dean, College of Business Administration
Business Administration (Finance)

ROGER R. HARVEY
Ph.D., East Texas State University, 1970; Assistant Professor
(Teaching the Mentally Retarded)
Special Education

GEORGE HEATHER
Ph.D., State University of Iowa, 1946; Professor
Business Administration

*SHELTON HENDRICKS
Ph.D., Tulane University, 1967; Associate Professor
Psychology

ELAINE HESS
Ph.D., University of Nebraska-Lincoln, 1971; Assistant Professor
Sociology

WAYNE M. HIGLEY
Ph.D., University of Illinois, 1962, C.P.A.; Professor
Business Administration (Accounting and Quantitative Methods)

*JACK A. HILL
Ph.D., University of Texas, 1964; Professor
Business Administration (Management)

*PETER W. HILL
M.P.A., Cranbrook Academy of Art, 1958; Professor and Chairman of Department of Art

ROGER HOBURG
Ph.D., University of Nebraska-Lincoln, 1967; Assistant Professor
Chemistry

WILLIAM C. HOCKETT
M.B.A., University of Denver, 1949; C.P.A.; Professor
Business Administration (Accounting)

MERLIN I. HOFSTETER
Ph.D., University of Oregon, 1978; Assistant Professor
Sociology

LETA F. HOLLEY
Ed.D., University of Colorado, 1969; Professor Emeritus and Acting Chairman of Department of Education
Business Education

IRENE HOOVER
Ed.D., University of Arizona, 1971; Assistant Professor
Elementary Education

JAMES Q. HOSSACK
Ph.D., Western Reserve University, 1957; Assistant Professor
M.S.C. of Business Administration (Management), Associate Professor
Civil Engineering

HELEN HOWELL
Ed.D., University of Colorado, 1969; Associate Professor
Elementary Education

FRANCIS M. HURST
Ed.D., Indiana University, 1954; Professor
Psychology

CHARLES O. INGHAM
Ph.D., University of Utah, 1963; Associate Professor
Biology

ROBERT INNES
Ph.D., University of Nebraska-Lincoln, 1967; Assistant Professor of Medical Psychology, College of Medicine (Joint Appointment)
Psychology

ORIGEN J. JAMES, JR.
D.B.A., Texas Tech University, 1968; Associate Professor
(Accounting and Computers in Business)
Business Administration

HARL R. JARMIN
Ph.D., University of Missouri, Kansas City, 1969; Assistant Professor
Counseling and Guidance

JAMES L. JOY
Ph.D., University of Denver, 1971; Assistant Professor
Economics

M. B. A., Ohio State University, 1935; L.L.D., University of Omaha, 1968; Professor
Business Administration (Marketing)

NORMAN J. LUNA
Ph.D., University of Colorado, 1920; Assistant Professor
Foreign Languages

STEELE R. LUNT
Ph.D., University of Utah, 194; Associate Professor
Biology

WILFRED LOGAN
Ph.D., University of Michigan, 1956; Graduate Lecturer
Sociology

JOHN W. LUCAS
M.B.A., Ohio State University, 1935; L.L.D., University of Omaha, 1968; Professor
Business Administration (Marketing)

THOMAS MAJESKI
M.F.A., University of Iowa, 1963; Associate Professor
Art

JOHN P. MALONEY
Ph.D., Georgetown University, 1965; Associate Professor
Mathematics

DONALD D. MANSON
Ph.D., Pennsylvania State University, 1966; Associate Professor
Speech
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
<th>Institution/Year</th>
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<tbody>
<tr>
<td>D. N. Marquardt</td>
<td>Chemistry</td>
<td>State University of Iowa, 1946</td>
</tr>
<tr>
<td>Robert P. McCune</td>
<td>Economics</td>
<td>Ball State University, 1971</td>
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<tr>
<td>Kathleen A. McHenry</td>
<td>Special Education (Education of the Deaf)</td>
<td>University of Wisconsin, 1965</td>
</tr>
<tr>
<td>John G. McMillan</td>
<td>Physics</td>
<td>University of Nebraska-Lincoln, 1942</td>
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<td>Robert P. McCune</td>
<td>Speech</td>
<td>University of Nebraska-Lincoln, 1964</td>
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<tr>
<td>C. Raymond Millimet</td>
<td>Psychology</td>
<td>Oklahoma State University, 1968</td>
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<tr>
<td>Joyce Minter</td>
<td>Business Administration (Communications)</td>
<td>Indiana University, 1967</td>
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<tr>
<td>Robert B. Moore</td>
<td>Speech (Theater)</td>
<td>University of Denver, 1971</td>
</tr>
<tr>
<td>Woodrow L. Most</td>
<td>Foreign Language</td>
<td>Laval University, 1953</td>
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<tr>
<td>Kirk E. Naylor</td>
<td>Educational Administration</td>
<td>University of Kansas, 1962</td>
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<tr>
<td>Thomas Nenneman</td>
<td>Elementary Education</td>
<td>University of Nebraska-Lincoln, 1970</td>
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<td>Glen A. Newkirk</td>
<td>English</td>
<td>University of Denver, 1956</td>
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<td>John M. Newcomb</td>
<td>Psychology</td>
<td>Ohio State University, 1955</td>
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<td>John R. Nye</td>
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<td>University of Nebraska-Lincoln, 1968</td>
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<tr>
<td>B. Gale Oleson</td>
<td>Counseling and Guidance</td>
<td>University of Wyoming, 1953</td>
</tr>
<tr>
<td>*Robert C. O'Reilly</td>
<td>Educational Administration</td>
<td>University of Kansas, 1962</td>
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<tr>
<td>Richard F. Ortman</td>
<td>Business Administration (Accounting)</td>
<td>University of Wisconsin, 1971</td>
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<td>Richard A. Overfield</td>
<td>History</td>
<td>University of Maryland, 1963</td>
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<tr>
<td>Russell W. Palmer</td>
<td>Religion</td>
<td>University of Iowa, 1966</td>
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<tr>
<td>*D. T. Pedrini</td>
<td>Psychology</td>
<td>University of Texas, 1958</td>
</tr>
<tr>
<td>James B. Peterson</td>
<td>Music</td>
<td>University of Iowa, 1963</td>
</tr>
<tr>
<td>*William Petrowski</td>
<td>History</td>
<td>University of Wisconsin, 1966</td>
</tr>
<tr>
<td>Donald J. Pfeiffer</td>
<td>Counseling and Guidance</td>
<td>University of Nebraska, 1953</td>
</tr>
<tr>
<td>Ross A. Pilkington</td>
<td>Counseling and Guidance</td>
<td>University of Nebraska-Lincoln, 1971</td>
</tr>
<tr>
<td>*William C. Pratt</td>
<td>History</td>
<td>Emory University, 1960</td>
</tr>
</tbody>
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**University of Nebraska at Omaha**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
<th>Institution/Year</th>
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<tbody>
<tr>
<td>Leonard W. Prestwich</td>
<td>Business Administration (Marketing)</td>
<td>Ohio State University, 1957</td>
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<tr>
<td>*Paul V. Prior</td>
<td>Biology</td>
<td>University of Iowa, 1956</td>
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<tr>
<td>George R. Rasmussen</td>
<td>Educational Administration</td>
<td>Indiana University, 1955</td>
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<tr>
<td>Edith Rasmussen</td>
<td>Biology</td>
<td>University of Nebraska-Lincoln, 1968</td>
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<tr>
<td>Harold J. Betalick</td>
<td>Geography</td>
<td>Clark University, 1950</td>
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<tr>
<td>*Harry W. Reynolds, Jr.</td>
<td>Political Science</td>
<td>University of Pennsylvania, 1954</td>
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<tr>
<td>*Roy M. Robbins</td>
<td>History</td>
<td>University of Wisconsin, 1928</td>
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<tr>
<td>Wilbur F. Rogers</td>
<td>Civil Engineering</td>
<td>Pennsylvania State University, 1979</td>
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<tr>
<td>*Wills P. Rokes</td>
<td>Business Administration (Business Law and Society)</td>
<td>University of Utah, 1951; Ohio State University, 1958; CLU; C.P.C.U.; Professor</td>
</tr>
<tr>
<td>Mark C. Rousseau</td>
<td>Sociology</td>
<td>University of North Carolina, 1971</td>
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<td>Edward J. Sadler</td>
<td>Secondary Education</td>
<td>University of Nebraska-Lincoln, 1969</td>
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<tr>
<td>Harry L. Saslow</td>
<td>Psychology</td>
<td>University of Pittsburgh, 1939; Associate Professor of Child Health Pediatrics, College of Medicine (Joint Appointment)</td>
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<tr>
<td>*Gordon Schiltz</td>
<td>Geography</td>
<td>Clark University, 1948; Professor and Chairman of Department</td>
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<tr>
<td>David C. Scott</td>
<td>Geology</td>
<td>State University of Iowa, 1948; Professor and Chairman of Department</td>
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<tr>
<td>James W. Selee</td>
<td>Educational Experimentation and Development</td>
<td>University of Colorado, 1964; Professor</td>
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<tr>
<td>Roger S. Sharp</td>
<td>Biology</td>
<td>University of Nebraska-Lincoln, 1968; Assistant Professor</td>
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<td>John F. Shroder</td>
<td>Geography</td>
<td>Washington University, 1979; Assistant Professor</td>
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<td>Robert B. Simpson</td>
<td>Sociology</td>
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<tr>
<td>David Sirota</td>
<td>Business Administration (Real Estate)</td>
<td>University of Arizona, 1971; Associate Professor</td>
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<tr>
<td>*Keith F. Smith</td>
<td>Mathematics</td>
<td>University of Iowa, 1968; Associate Professor</td>
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<tr>
<td>Paul J. Stageman</td>
<td>Chemistry</td>
<td>University of Nebraska-Lincoln, 1963; Professor</td>
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<tr>
<td>Elroy J. Steele</td>
<td>Economics</td>
<td>State University of Iowa, 1967; The Frederick W. Kayser Professor and Chairman of Department; Acting Director, Urban Affairs; Interim Dean, School of Public Affairs and Community Service</td>
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<tr>
<td>Jacqueline D. St. John</td>
<td>History</td>
<td>University of Oklahoma, 1969; Assistant Professor</td>
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DEPARTMENTS OFFERING GRADUATE INSTRUCTION

Departments or areas which have been approved to offer courses for graduate credit and the degrees available in each department are as follows:

<table>
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<tr>
<th>Department or Area</th>
<th>Minor Only</th>
<th>Master of Arts</th>
<th>Master of Science</th>
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<td>Teaching the Emotionally Disturbed</td>
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<td>Educational Administration and Supervision</td>
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<td>Industrial Psychology</td>
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<td>Speech</td>
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</table>

* Member, Graduate Faculty, University of Nebraska System
EXAMINATIONS FOR GRADUATE STUDENTS

Graduate students are required to take either the Graduate Record Examination (GRE) or the Admission Test for Graduate Study in Business (ATGBS) during their first semester of enrollment in the Graduate College, unless they have taken it previously and have made the scores available to the Dean of the Graduate College. Neither examination is used to exclude admission at the Masters level.

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

A Graduate College applicant already holding a Master's degree in the field in which he wishes to pursue further study and not enrolling into a degree program is not required to take the Graduate Record Examination.

All testing at UN-O in the two categories below is under the supervision of Dr. Gale Oleson, Director, Academic Testing Bureau. Registration deadlines and testing dates are available from the Office of the Academic Testing Bureau, Administration Building 213.

<table>
<thead>
<tr>
<th>Graduate Record Examination (Both General Aptitude and Advanced Area Selection are Required)</th>
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<tbody>
<tr>
<td><strong>Registration Deadlines</strong></td>
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<tr>
<td>March 22, 1972</td>
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<tr>
<td>May 17, 1972</td>
</tr>
<tr>
<td>September 28, 1972</td>
</tr>
<tr>
<td>November 9, 1972</td>
</tr>
<tr>
<td>December 20, 1972</td>
</tr>
<tr>
<td>January 24, 1973</td>
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<tr>
<td>March 28, 1973</td>
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<tr>
<td>May 16, 1973</td>
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</table>

Admission Test For Graduate Study In Business

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

GRADUATE COLLEGE
Elton S. Carter, Dean

The first Master's degrees were awarded in 1918 by a special vote of the Board of Trustees of the "old" University of Omaha. In 1933, after the University became the Municipal University of Omaha, a Graduate Committee was organized to supervise graduate education. In 1942, the Graduate Committee was replaced by the Committee on Graduate Studies. The degree 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 Graduate Division. In 1960, the Board of Regents authorized a year of graduate study in education beyond the Master's degree. The Master of Business Administration was authorized in 1965 and the Master of Public Administration was authorized in 1970.

Recognizing the growing importance of graduate education, the term "Graduate Division" was authorized in 1949. In October, 1962, the Board of Regents 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 provides the opportunity for more advanced education than the undergraduate work upon which all graduate programs are founded.

The Graduate College at the University of Omaha was established to provide an opportunity for advanced study and independent investigation in a limited number of fields of learning for qualified students:
1. To work toward these degrees: Master of Arts, Master of Science, Master of Business Administration, Master of Public Administration, Specialist in Education.
2. To earn graduate credit for the issuance or renewal of certificates for teachers, administrators and educational psychologists.
3. To provide for scholarly and professional advancement.

To enable the student to attain these objectives, the Graduate College provides graduate courses, workshops, institutes, seminars, research and special problems courses, and the supervision of these or special projects. Thus the Graduate College promotes the spirit of free investigation in the various disciplines and, at the same time, serves to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society.

*Now the University of Nebraska at Omaha

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.

Any member of the Graduate Faculty may make nominations for appointment to the Graduate Faculty. In addition, such nominations require the recommendation of a Department Chairman, the cognizant Dean and the concurrence of the Dean of the Graduate College. Typically, the Department Chairman will be the Chairman of the department in which the nominated person holds academic rank. In other cases (persons who do not hold departmental academic rank, inter-departmental programs, etc.) the Chairman of the department in which the person will be involved in graduate instruction or advising shall recommend. (Standard nominating forms are available in the Graduate College Office.)

The Academic Standards and Curriculum Committee shall review these nominations and recommend for election by the voting members of the Graduate Faculty those persons who meet the qualifications for membership. Qualifications for membership are:
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 creative work.
3. He has one year of teaching experience at the college level (other than graduate assistantships or part-time instructing) or equivalent experience, plus research publication or creative production with evidence of peer acceptance, or He has two years of teaching experience at the college or university level (other than graduate assistantships or part-time instruction) or equivalent experience.
4. He holds a full-time appointment in the University System with faculty rank of assistant professor or higher, or is qualified as a graduate lecturer.

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.

Approval to teach for persons who are not members of the UNO Graduate Faculty may be secured by recommendation from the department head for approval on behalf of the faculty by the Graduate Dean.

ACADEMIC STANDARDS AND CURRICULUM COMMITTEE

The Academic Standards and Curriculum Committee of the Graduate Faculty is an eleven-member group. This group considers graduate policies, procedures and academic offerings and makes its recommendations to the Graduate Faculty. The current members of the Academic Standards and Curriculum Committee are: Dr. Frederick W. Adrian; Dr. James C. Akers; Dr. Dale M. Bunsen; Dr. Kenneth A. Dennenbacher; Dr. Lawrence E. Ehlers; Dr. Raymond A. Guenther; Dr. Elaine Hess; Dr. Kirk Naylor; Dr. Leonard W. Prestwich; Dean Elton S. Carter, Chairman; and Mr. Jack Lee Hohensee, graduate students' representative.

SENATE RESEARCH COMMITTEE

The objectives of this committee are: (1) to foster fruitful research as an adjunct to teaching excellence, (2) to recommend allocation of the available funds for research toward these ends, (3) to encourage solicitation of monies for research. Requests for various research activities will be solicited, evaluated, and recommended for approval or disapproval in keeping with the objectives of the Committee's area of responsibility and concern.

Standing members of the Committee are the University Grants Coordinator and the Dean of the Graduate College. The current elected members are Dr. Willis Rokes, Chairman; Dr. Shelton Hendricks; Dr. William C. Pratt; Dr. M. N. Reddy; Dr. Charles Wilson; and Mr. Barry Timanus, graduate students' representative.
GRADUATE PROGRAM COMMITTEES

Each department (or area) offering a graduate degree has a Graduate Program Committee of at least three members. This committee and its chairman are chosen annually by the graduate faculty members of the department. In its department the Graduate Program Committee has the responsibility for the planning of the graduate program, the general supervision of the candidates for graduate degrees and the examining of students by means of the qualifying examination and the final comprehensive examination when these examinations are not given by a student’s thesis or field project supervisory committee.

Each new graduate student, in conference with the chairman of the Graduate Program Committee of his major department, shall select his major adviser. For the student who has a supervisory or advisory committee, the composition of the committee shall be recommended to the Graduate Dean by the chairman of the student’s Graduate Program Committee after consultation with the student and his major adviser. At the master’s level, committees of three members are usually sufficient. The chairman should be a member of the Graduate Faculty and, whenever feasible, the student’s adviser and thesis director. The representative from a department other than the major must be a member of the Graduate Faculty. In addition to at least three voting members, faculty members in the university system may be appointed to serve ex officio (without vote) as consultants (or to gain experiences as special representatives). The Graduate Program Committees at UN-O represent both the Graduate Faculty and the student’s field of study. The word program denotes all kinds of academic requirements which must be satisfied by the graduate student in order to qualify for a particular degree (or—in the case of a non-degree student—the requirements of graduate-level certification or recognized stages of professional development). Every degree candidate’s plan of study must be designed to fulfill the requirements of a program which has been approved by the Graduate Faculty. Both major and minor requirements, together with quality-of-work standards, are included under programs; also included are transfer credits and those electives which are not major or minor courses.

Faculty members involved in graduate education, and in research (or any kind of further faculty development involving graduate students), should have ample opportunity to participate in decisions affecting these responsibilities. Provisions for appropriate participation by graduate students is equally important.

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 upward from $2520. 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 adviser recommends the abnormally high work load to the Graduate Dean for his approval.

Graduate assistants or interns who must earn money for self-support may be required to reduce correspondingly the number of hours for which they may register. Such adjustments shall be subject to the approval of the Dean of the Graduate College.

Applications and their supporting credentials must be received on or before March 1. Address requests for information and application forms to the Chairman of the Department in which the assistantship is desired.

TUITION WAIVERS FOR GRADUATE STUDENTS

Several tuition waivers are available for qualified students who have been admitted to the Graduate College. Eligibility is based on academic qualifications and financial need.

Graduate assistantships and tuition waivers cannot be awarded simultaneously to anyone.

The selection of applicants to be awarded graduate tuition waivers is decided by the UN-O Graduate Fellowship Committee: Dr. Robert Benecke, Dr. Barbara Brilhart; Dr. Norman Hamm; Assistant Dean (College of Education) Tom Norwood; Dr. John Shroeder; and Dean Elton Carter, Chairman.

Information and application forms are available in the Graduate Office. Allow at least two months for processing applications.

SCHOLARSHIPS

Phi Delta Gamma, 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 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 work previously taken. Transcripts and all other materials submitted in support of an application become the permanent property of the University and will not be returned. (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.

NOTE: For consideration for the Fall, Spring, First Summer term, or the Second Summer term, above credentials must be on file by July 15, December 15, May 15, or June 15 respectively.

NOTE: For consideration for the Fall, Spring, First Summer term, or the Second Summer term, above credentials must be on file by July 15, December 15, May 15, or June 15 respectively.

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, 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, for professional development, and for graduate credit to be transferred to some other school. (See Calendar for dates.)

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.")

AUDIT

A student wishing to audit a course must secure the permission of his advisor, must register for the course to audit, and must secure the approval of the instructor of the course whose prerogative it will be to determine privileges including examinations connected with the course. An audit study may not change to credit registration after the first week of a course. (A credit student may change to audit registration during the first five weeks of a semester, or during the first half of a class if it runs longer or shorter than a semester.)

CLASSIFICATION OF ADMISSION

Unconditional

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

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.

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.

Applicants to the Graduate College who have been graduated from unaccredited colleges may be admitted provisionally. Unconditional status may be attained upon completion of twelve semester hours of graduate courses with at least a B average. A student may not apply for admission to candidacy for any degree until he has met the requirements of unconditional admission.

Non Degree

Some students who do not anticipate pursuing a degree program may be admitted to graduate study. Credentials for admission include a completed application blank and two undergraduate transcripts. Credit hours accumulated in this category could be counted toward a degree only if (a) the transition from non degree status is accomplished no later than the first opportunity to file candidacy for degree, and (b) the petition for change is accompanied by a departmental recommendation that the specified credit hours count toward the degree. For students desiring to change prior to completion of 9 credit hours, the Request to Change Graduate Degree Program form should be used; for those having completed 9 hours the Application for Admission to Candidacy form should be used.

Acceptance of Senior Credits: Seniors in this University who have obtained in advance the approval of the Dean of the Graduate College may receive up to twelve hours credit for graduate courses taken in addition to the courses necessary to complete their undergraduate work, provided that such credits are earned within the twelve month period prior to receipt of the baccalaureate. With permission of the department or departments offering the courses, students may be permitted to enroll in 800-level courses during either semester of their senior year. However, courses taken during the senior year may be carried for graduate credit only if approved in advance by the Dean of the Graduate College.
Seniors in this University needing not more than nine hours of undergraduate credit to complete the bachelor's degree and wishing to register for graduate credit may be granted provisional admission to the Graduate College subject to receiving their baccalaureates within the twelve-month period immediately following such registration. They must file application for admission to the Graduate College and, if admitted, will register on Graduate College Registration forms. Such registration may count as residence in the Graduate College.

Course work taken prior to receipt of the baccalaureate may not always be accepted for transfer to other institutions as graduate work.

Admission to Teacher Education Programs

Students who plan to work for the Master's degree with a major in one of the fields of education must hold a valid teaching certificate or be eligible for such a certificate at the undergraduate level before entering the program. For certification requirements, communicate with the Dean's Office in the College of Education.

REGISTRATION PROCEDURE

The student is to follow the usual procedure in registering for courses by filling out the proper class cards and other registration blanks and by paying fees at the Business Office. At each registration period the student must secure the signature of his major advisor and the Dean of the Graduate College (if he is registering for more than twelve hours). Students must have been formally admitted to the Graduate College prior to their first registration.

Graduate students who are not working toward a degree are classified as non-degree students. This classification includes:
1. graduate students taking courses for teacher certification
2. graduate students taking courses for professional growth
3. graduate students taking courses for cultural advancement
4. graduate students taking courses for transfer to another institution.

CERTIFICATION OR PROFESSIONAL GROWTH

Students who wish to take courses for graduate credit to be used for teacher certification 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 or Supervisory Certificate must submit to the Office of the Dean of the College at the time of application, the names of two persons who can vouch for their personal and professional qualifications as a prospective school administrator.

ADMISSION TO CANDIDACY FOR GRADUATE DEGREE

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

It is the student's responsibility to make application for candidacy for 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.

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 plan of study should be filed in the Graduate Office and copies should be provided for the major adviser, the minor adviser, and the student.

Plans of study should be planned with acceptable alternatives included. Once approved, any modification of a plan 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.

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. (See Calendar for date.)

THESIS

Except in one English program, 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 first-hand experience in research methods under competent direction. Up to six hours of credit is allowed for the thesis and the candidate must include the thesis as a course in his schedule during at least one semester. 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 requested by the department, are required. The original must be a typewritten copy on permanent bond paper of 20-pound weight. Copies should be on paper of at least 16-pound weight. Except for the original, the required number of additional copies may be reproduced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairman of the thesis committee. Either pica or elite type may be used in typing. It is the responsibility of the student to be familiar with the “Instructions for the Preparation of Theses,” a copy of which may be obtained in the Graduate College Office. The thesis must be approved by the student's thesis committee and submitted to the Graduate Office in final form with the signatures of the committee members on the approval sheets of all copies no later than twelve working days prior to the conferral of the degree.

Thesis Manual: The responsibility for placing the thesis in final form rests with the student and his major adviser. All theses must be writen 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 the student's expense. The fees are payable in the Cashier's Office.

ORAL EXAMINATION ON THESIS

The composition of a committee to approve the thesis proposal and to conduct the oral examination over the thesis and thesis field is recommended by the department and submitted to the Dean of the Graduate College for his approval and appointment. 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 may be devoted to the thesis and one-half to the graduate courses taken by the candidate.

Final comprehensive oral examinations are arranged by the department, and it is the student's responsibility to deposit the proper number of copies of the corrected and approved thesis in the Graduate Office together with the signed approval sheets at least twelve working days prior to the conferral of the degree.

Oral examinations may not 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 candidates not writing a thesis, the examination is a written one. For those candidates writing a thesis, the final comprehensive examination may be either written or oral. If written, it must be arranged at the convenience of the major adviser. 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 may 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 administered on dates corresponding to those of the comprehensive (noted above), one-half the time may be devoted to the thesis and one-half to the subsequent fall semester.

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

*No comprehensive examination is required on one alternate program in English.

University of Nebraska at Omaha

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.

QUALITY OF WORK

A "B" average must be maintained in all work taken as part of the requirements for the degree. A final grade of "C" in each of two courses in either the major or minor area will require action on the part of the cognizant graduate program committee before the student is allowed to count further work toward the degree.

A grade of "C" in each of three courses will result in automatic dismissal from the degree program unless the student has a "B" average or higher.

A grade of "D" or below in either the major or minor area is considered a failing grade and the student receiving such a grade will automatically be dropped from the degree program. The student thus dropped must secure the approval of the cognizant graduate program committee or his adviser as the spokesman for the committee in order to take course work as a non-degree student and he may not be a candidate for the degree unless reinstated by the academic standards and curriculum committee when recommended by the graduate dean.

A student, upon consent of his adviser, may repeat a course in which he has previously received the grade of C, D, or F. Both grades will appear on the transcript but only the second grade will be counted in determining the grade point average.

INC The grade "I" is to be used by an instructor at the end of a term to designate incomplete work in a course. It should be used when a student, due to extenuating circumstances such as illness, military service, hardship, or death in the immediate family, is unable to complete the requirements of the course in the term in which he is registered for credit. Incompletes should only be given if the student has already substantially completed the major requirements of the course.

Each instructor must judge each situation. The instructor must also indicate by a departmental record, with a copy to the student, how the incomplete is to be removed, and if he is at the University at the time of the removal, supervise the makeup work and report the permanent grade.

In the event that the instructor is not available at the time of the student's application for removal of an incomplete, the department chairman shall supervise the removal of the incomplete and turn in the permanent grade for the student.

A student to receive credit in a course for which he has received a grade "I" must re-register and take the course again unless he removes the incomplete within two years from the date he received the "I". In the meantime the "I" is not computed in the student's GPA.

CLASS ATTENDANCE

Students are expected to attend all meetings of classes for which they are registered. In case of an unavoidable absence it is the student's responsibility to contact his instructor promptly and arrange to make up any work missed.
STUDY LOAD

An average study load for a full-time graduate student is twelve hours of course work. The minimum load required for classification as full-time graduate student is nine hours of course work. Graduate assistants are considered full-time students if they carry a minimum of six hours of course work.

COURSES FOR GRADUATE CREDIT

Courses which are available for graduate credit are those which have been especially approved by the Graduate Faculty with syllabi on file in the Graduate Office.

Courses numbered 800V, 800U and 900 are open only to graduate students. A limited number of upper-division courses are available for graduate credit but the graduate student is expected to do a higher level of work than the undergraduate students.

RESIDENCE REQUIREMENTS

A minimum of 30 semester credit hours in residence (36 in case of the Master of Science in Education and the Master of Business Administration degrees) is required for granting of the Master's degree, except as provision is made for the transfer of credit. No credit will be allowed for correspondence work.

TRANSFER OF CREDIT

Students who have completed graduate courses at other approved graduate schools (including 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 programs 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.

Students who wish to take graduate courses at the University of Nebraska at Lincoln or at the Medical Center for transfer to UNO should secure the Intercampus Graduate Student Exchange form from the Graduate College office. Transfer of graduate credit from all schools in the University system will be accepted to the extent approved by the student's committee with at least one-half of the minimum degree requirements to be taken at the UNL or UNO campus, whichever is to grant the degree. Only grades of "B" or better may be transferred from other schools in the University System to apply toward degree requirements here.

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 withdraws, his record will be marked "W" indicating that he withdrew.

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

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 Graduate 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 as described above.
5. Apply for the degree in the Office of the Registrar during the semester or session in which the degree is to be conferred. (See Calendar for exact date.)
6. Inform your adviser at least three weeks in advance of the comprehensive examination that you wish to sit for the examination. This applies to all degree candidates whose work requires written comprehensives.
7. Notify the Graduate Office at least three weeks in advance of the oral examination (Master of Arts) or of the written comprehensive examination (Master of Science) that you are planning to sit for the examination so that your graduate record may be compiled.
8. Make arrangements with your department for the oral examination (Master of Arts) to be given with ample time to have the corrected and approved thesis deposited in the Graduate Office at least twelve working days prior to conferral of the degree. Theses examinations may not be scheduled during the second summer session.
9. Order the cap and gown from the Book Store.

TUITION, FEES, DEPOSITS AND REFUNDS

The University reserves the right to change the amount of tuition or fees at any time, and to assess charges for breakage, lost property, fines, penalties, parking, books, supplies, food, or special services not listed in this schedule.
Tuition and related fees are payable in full at the time of registration. Students in need of financial aid must consult the Student Financial Aid Office in room Administration 240 at least two weeks prior to the start of classes.

Registration is not complete until cleared by the Cashier. Failure to pay tuition fees when due, or to meet payments on loans when due, may result in cancellation of registration.

**Application Fee:**
The application fee is payable at the time the application for admission is filed. This fee is non-refundable, and does not apply towards tuition, or any other fee. Residency is determined by the status of the applicant at the time the fee is filed.

- Resident of Nebraska: $10.00
- Non-resident: $25.00

**Tuition, Undergraduate and Graduate:**
Tuition is assessed on the basis of credit hours taken. Charges are made for each credit hour from one credit hour through twelve credit hours, and for each credit hour in excess of sixteen credit hours. This means that no charge for tuition is assessed for the thirteenth, fourteenth, fifteenth, or sixteenth credit hours. It also means that no refund will be made for dropped courses within this "no additional charge" span.

- Resident of Nebraska—per credit hour: $18.00
- Non-resident—per credit hour: $48.25

**Audit Fee:**
The Audit (not for credit) fee is set at one-half of the Resident tuition rate, or $9.00 per hour. Registration for audit requires the permission of the instructor, and is subject to available class space after credit registration ends.

**Special Instructional Fees:**
Applied Music: Voice and all instruments except percussion and harp. (Fee may be waived by the Head of the Music Department for any full-time students who are music majors or minors.

- One semester credit hour: $55.00
- Two semester credit hours: $70.00
- Three semester credit hours: $105.00
- Non-credit, 8 lessons: $45.00
- Non-credit, 16 lessons: $90.00

TV Classroom (3 credit hours and materials) $75.00

Conferences, non-credit, and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved.

**General Fees:**
- Full-time students (12 credit hours or more) per semester: $30.00
- Part-time students (less than 12 hours) per semester: $15.00
- Summer Sessions (per session): $12.00

General fees are assessed to every student each semester, except that summer sessions 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.

A portion of the general fee has been earmarked by the Board of Regents for the support of the Student Activities. The Chancellor and the Director of Business and Finance of the University, with the advice and recommendations of the Student Activities Committee, will establish budget authorization and administer expenditure practices in accordance with Regents' policies which apply to all funds collected by the University of Nebraska.


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 advisor 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 account 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.

Refunds for withdrawals are figured from the official beginning of the semester as stated in the University's academic calendar, not from the beginning of students' individual class schedules.

REGULAR SEMESTER

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<tr>
<th>Withdrawal period</th>
<th>Refund Percentage</th>
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</thead>
<tbody>
<tr>
<td>Withdrawal before first official day of the semester</td>
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<tr>
<td>Withdrawal before 2 weeks elapsed</td>
<td>75%</td>
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<tr>
<td>Withdrawal before 3 weeks elapsed</td>
<td>50%</td>
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<tr>
<td>Withdrawal before 5 weeks elapsed</td>
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<tr>
<td>Withdrawal after 5 weeks elapsed</td>
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SUMMER SESSIONS (5 WEEK SESSION)

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</thead>
<tbody>
<tr>
<td>Withdrawal before first official day of each session</td>
<td>100%</td>
</tr>
<tr>
<td>Withdrawal during first three days</td>
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<tr>
<td>Withdrawal during remainder of 1st week</td>
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<tr>
<td>Withdrawal during 2nd week</td>
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<tr>
<td>Withdrawal after 2nd week</td>
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CREDIT COURSES (6 WEEK SESSION)

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<tr>
<th>Withdrawal period</th>
<th>Refund Percentage</th>
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</thead>
<tbody>
<tr>
<td>Withdrawal before first official day of each session</td>
<td>100%</td>
</tr>
<tr>
<td>Withdrawal before 1st week elapsed</td>
<td>75%</td>
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<tr>
<td>Withdrawal before 2 weeks elapsed</td>
<td>50%</td>
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<tr>
<td>Withdrawal before 3 weeks elapsed</td>
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NON-CREDIT AND SPECIAL COURSES

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<td>Withdrawal before classes start</td>
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<tr>
<td>Withdrawal before 1st week elapsed</td>
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<tr>
<td>Withdrawal before 2 weeks elapsed</td>
<td>50%</td>
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<tr>
<td>Withdrawal before 3 weeks elapsed</td>
<td>25%</td>
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<tr>
<td>Withdrawal after 3 weeks elapsed</td>
<td>0</td>
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(10 Weeks or More)

RESIDENT STUDENTS

A student's right to classification as a resident for purpose 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.

DEGREE PROGRAMS

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.

Master of Arts or Master of Science Degree

A departmental or interdepartmental program for either the Master of Arts or Master of Science degree as approved by the Graduate Faculty will normally be arranged to conform to one of the following patterns:

Option I. A 30 semester-hour program (maximum of 6-hour thesis credit included) as determined by the cognizant Graduate Program Committee.

Option II. A 36 semester-hour non-thesis program as determined by the cognizant Graduate Program Committee.

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.

Master of Public Administration Degree

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

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 offer additional study for professional educators.

COURSE DESCRIPTIONS

Key to Symbols:

I—offered in the first semester of each year
II—offered in the second semester of each year
S—offered in the summer session

Courses numbered 800V, 800U and 900 are open to graduate students only. Some courses numbered 800M are open to both seniors and graduates; the same is true of a selected few 800L numbered courses. It is expected as a rule that graduate students enrolled in those courses numbered 800L—800M will do work of a higher level than undergraduates.

Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.

ART (ART)

Graduate Faculty Members:

Professors John V. Blackwell, Peter W. Hill (Chairman);
Associate Professors Sidney Buchanan, Thomas Majeski.

Graduate art courses are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.
Course Descriptions

831M Advanced Sculpture
PREREQ: Art 331 and permission
Advanced work in area of student's choice, with facilities for oyster, shell, and fur."""" art, and general metal working.

841M Advanced Painting
PREREQ: Art 331 and permission
Practical instruction in oil painting and related media. The course gives the student the time and environment to work and develop individually. A strong emphasis is placed on a complete knowledge of contemporary art.

851M Advanced Printmaking
PREREQ: Art 331 and permission
Intaglio process stressing technical proficiency in the various media.

Biology (BIOL)

Graduate Faculty Members:
Professors Merle E. Brooks, Karl H. D. Busch, Paul V. Prior (Chairman);
Associate Professors Charles O. Ingham, Steele R. Lunt, Edith Rasmussen, David M. Sutherland;
Assistant Professor Roger S. Sharpe

To enter a degree program with a major in biology the student must present approximately 24 semester hours of credit in the biological sciences including general botany, general zoology, and genetics plus adequate preparation in the supporting sciences of inorganic and organic chemistry, general physics, and mathematics. Students with inadequate backgrounds may be admitted provisionally.

Master of Arts

It is anticipated that initially every student will become a candidate for this degree. Only under appropriate circumstances will a student be allowed to become a candidate for the Master of Science degree.

To complete the Master of Arts degree with a major in biology the candidate must present 30 hours of graduate work in biology to include credit in thesis (a maximum of 6 hours), a minimum of 2 hours in seminar, and at least 22 hours of appropriate courses to be determined by the student and his faculty committee. The present research interests of the faculty members include animal behavior, animal physiology, botany, ecology, embryology, entomology, freshwater biology, histology, ichthyology, invertebrate zoology, microbiology, ornithology, plant anatomy, plant biosystematics, plant morphology, plant physiology, and vertebrate systematics.

The candidate must pass a final oral examination.

UNIVERSITY OF NEBRASKA AT OMAHA

Master of Science

A student may become a candidate for this degree only upon the recommendation of his faculty committee.

To complete the degree the candidate must present 36 hours of graduate work in biology to include at least 2 semesters of Biology 801V, 1 semester of Biology 802V, and other appropriate courses to be determined by the student and his faculty committee.

The candidate must pass a final written comprehensive examination.

Course Descriptions

834L Ecology
PREREQ: Biology 145, 175
The study of the behavior of whole organisms and groups of organisms in relation to their total living and non-living environment.

844L Morphology of Lower Plants
PREREQ: Biology 145
A lecture and laboratory course which covers the ecology, morphology, and evolutionary trends of algae, fungi, and bryophytes.

854L Morphology of Higher Plants
PREREQ: Biology 145
A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends.

863L Plant Anatomy
PREREQ: Biology 145
A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants.

873L Fauna of the Great Plains
PREREQ: Biology 145, 175
A survey of the common animal groups found in the Great Plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands.

874L Histology
PREREQ: Biology 175, and a course in vertebrate anatomy, or permission of instructor
Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance.

884L Embryology
PREREQ: Biology 175 and a course in vertebrate anatomy
An intensive study of the embryology and development of the vertebrate animal, particularly the human, from gastrulation through organogenesis as revealed by a study of selected vertebrate embryos and fetuses.

814M Cellular Biology
PREREQ: Biology 145 and 175, organic chemistry, or permission of the instructor
This course is a comprehensive study of the structure and function of plant and animal cells.

818M Limnology
PREREQ: Biology 145, 175, and organic chemistry
A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a freshwater environment.

823M Organic Evolution
PREREQ: Biology 214, Lecture and discussion only
A study of organic evolution in terms of evidence which support the theory and the mechanisms involved in the process.
### General Bacteriology
**PREREQ:** Biology 175, organic chemistry, or permission of instructor.
A survey of current research in bacteria. Special emphasis on the classification and identification of microorganisms, their life processes, and economical significance. 4 hours

### General Botany
**PREREQ:** Biology 175 or permission of instructor.
Introductory course emphasizing plant classification and identification with emphasis on North American freshwater fishes. 4 hours

### General Ecology
**PREREQ:** Biology 175, organic chemistry, or permission of instructor.
The nature of microorganisms, their life processes, their biological and economical significance. 4 hours

### General Zoology
**PREREQ:** Biology 175, organic chemistry, or permission of instructor.
A study of the morphology, anatomy, and physiology of selected families of diverse animals. 4 hours

### History of Life
**PREREQ:** Biology 175.
A survey of the major periods and events in the history of life, emphasizing the development of theory, fact, and methodology. 3 hours

### Introduction to Invertebrate Zoology
**PREREQ:** Biology 175.
A survey of the major phyla of invertebrates with emphasis on morphology and life history. 4 hours

### Introduction to Vertebrate Zoology
**PREREQ:** Biology 175.
A survey of selected vertebrates with emphasis on morphology, anatomy, and physiology. 4 hours

### Introduction to Zoology
**PREREQ:** Biology 175.
The study of the general biology of the subphylum Vertebrata including the morphology, anatomy, physiology, and life history of vertebrate representatives. 4 hours

### Laboratory in Zoological Methods
**PREREQ:** Biology 175, General Zoology.
An introduction to the techniques and apparatus used in vertebrate zoology. 4 hours

### Plant Ecology
**PREREQ:** Biology 175.
A study of the ecology of plants with special emphasis on community organization. 4 hours

### Animal Physiology
**PREREQ:** Biology 175 or permission of the instructor.
Methods of experimental physiology stressing the role of hormones in physiological and ecological significance. 4 hours

### Animal Behavior
**PREREQ:** Biology 175, Psychology 101, or permission. Lecture only.
Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. 3 hours

### Bryology
**PREREQ:** Biology 175, or permission of instructor.
A study of the recent advances in bryology, concentrating on the subject of the species problem and the experimental investigation of the problem. Readings, discussions, laboratory, and a written report. 3 hours

### Entomology
**PREREQ:** Biology 175.
The study of insects, their classification, morphology, physiology, behavior, life histories, ecology, and evolution. 4 hours

### Ichthyology
**PREREQ:** Biology 175.
A course in the identification, classification, ecology, and distribution of bryophytes. 4 hours

### Invertebrate Zoology
**PREREQ:** Biology 175.
A field-oriented course emphasizing the taxonomy and natural history of the invertebrate animals. 4 hours

### Mammalogy
**PREREQ:** Biology 175.
The study of the subphylum Vertebrata, excluding the fish-like vertebrates. 4 hours

### Ornithology
**PREREQ:** Biology 175
An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification, and identification with emphasis on North American groups. 4 hours

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### BUSINESS ADMINISTRATION (BA)

Graduate Faculty Members:

Associate Professors Origen J. James, Youssef I. Koulatly, David Sirota; Assistant Professors Bruce A. Kirchhoff, Richard F. Ortman, R. Wayne Wilson

The Master of Business Administration Degree

The M.B.A. 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 the students an understanding of the principles of management, marketing and finance and a proficiency in the use of accounting, computers, and statistics as tools for analysis of business activities. 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.

Foundation core: A student should have completed basic courses in the following areas before enrolling in certain courses required for the graduate degree. Special graduate courses are available to students to remove deficiencies in the foundation core. These courses include BA 811L, BA 812L, BA 813L, BA 814L, BA 815L and BA 816L; the foundation courses cannot be used to meet the 36 semester hours required for the M.B.A. degree.

Economics
Accounting (2 courses)
Marketing
Statistics
Management

The Admission Test for Graduate Study in Business is required. The test preferably should be taken prior to admission, but it must be taken not later than the end of the first semester of graduate work.

Degree Requirements: The degree requires a minimum of 36 semester hours for completion. Of these, 27 must be in the following required courses:

- Econ. 821V Micro-Economic Theory 3 hours
- Econ. 823V Macro-Economic Theory 3 hours
- BA 820V Marketing Policies 3 hours
- BA 830V The Environment of Management 3 hours
- BA 850V Financial Management 3 hours
- BA 820V Accounting for Management Control 3 hours
- BA 821V Contemporary Accounting 3 hours
- BA 850V Quantitative Analysis 3 hours
- BA 851V Business and Society 3 hours
- BA 851V Human Behavior in Organization 3 hours

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:

- BA 802V Research Methods in Business 3 hours
- BA 803V Business Information Systems 3 hours
- BA 805V Business Conditions Analysis 3 hours
- BA 825V Seminar in Accounting 3 hours
- BA 835V Seminar in Management 3 hours
- BA 841V Promotional Policies 3 hours
- BA 845V Seminar in Marketing 3 hours
- BA 851V Security Analysis 3 hours
- BA 855V Seminar in Investment Management 3 hours
- BA 855V Seminar in Finance 3 hours
- BA 850V Independent Research 3 hours

A thesis is not required for the degree. A written comprehensive final examination will be required when the student has completed his course work or is in his final semester.
830V The Environment of Management
PREREQ: MGT 340 or BA 811L
A classical and behavioral study of the organizational environment in which decision-making occurs to accomplish the economic and efficient operation of organized endeavor.

831V Human Behavior in Organization
PREREQ: BA 340 or BA 811L
An inter-disciplinary study concerned with the problems of combining and utilizing human resources to satisfy the objectives of management and workers.

835V Seminar in Management
PREREQ: BA 820V and BA 831V
A student participation course emphasizing current issues and problems in the areas of management theory and operation.

839V Executive Development Program for Medical Clinic Managers
PREREQ: BA 840V
A seminar combined with workshop sessions covering problems associated with the management of medical clinics.

840V Marketing Policies
PREREQ: MKT 331 or BA 815L
A marketing management approach to the determination of policies employed in solving problems in marketing.

841V Promotional Policies
PREREQ: MKT 331 or BA 815L
Analysis of the methods and policies needed to develop and administer an effective promotional program.

845V Seminar in Marketing
PREREQ: BA 840V
Exploration, study and critical analysis of contemporary marketing problems, trends, methods and approaches for marketing discussion and written report.

850V Financial Management
PREREQ: FIN 325 or BA 813L
Examination of the problems of managing the financial operations of an enterprise with emphasis on analysis and solution of long and short-term problems pertaining to policy decisions.

851V Security Analysis
PREREQ: FIN 325 or BA 813L
A study in the techniques of analysis of marketable securities. Statistical and financial ratio methods of analysis are examined as well as broader bases for appraisal of values of securities.

852V Seminar in Investment Management
PREREQ: FIN 325 or BA 813L
The theory of investment management and its application in formulation of policies for different types of investors.

855V Seminar in Finance
PREREQ: BA 880V
Selected topics from areas of business finance.

890V Independent Research
Individual research in the field of accounting, finance, management, marketing, quantitative analysis or the environment of business. Maximum of nine hours in three different fields.

CHEMISTRY (CHEM)
Graduate Faculty Members:
Professors C. Robert Keppel, Walter W. Lins tromberg, D. N. Marquardt (Chairman), Paul J. Stageman;
Assistant Professors Roger Hoburg, Ernest J. Kemnitz, James K. Wood.
Graduate chemistry courses are offered to fulfill requirements for a minor field or as cognate or selected courses in a plan of study.

Course Descriptions

855L Physical Chemistry
PREREQ: Chemistry 220, 220L, 240, 240L; Physics 212; Math 196
A presentation of selected topics from the areas of quantum mechanics, classical thermodynamics, statistical mechanics.

855L Physical Chemistry Laboratory
PREREQ: Chemistry 220, 220L, 240, 240L; Physics 212; Math 196
Chemistry 220L should be taken concurrently with Chemistry 220.

856L Physical Chemistry
A presentation of selected topics from the areas of classical thermodynamics, statistical mechanics and chemical kinetics.

856L Physical Chemistry Laboratory
PREREQ: Chemistry 220, 220L, 240, 240L; Physics 212; Math 196
Chemistry 220L should be taken concurrently with Chemistry 220.

840L Instrumental Analysis
PREREQ: Chemistry 336 (may be taken concurrently)
Laboratory to accompany Chemistry 840L. Normally taken concurrently with Chemistry 840L.

823M Advanced Organic Chemistry
PREREQ: Chemistry 226, 336
An advanced lecture course in modern theories and special topics in organic chemistry.

824M Advanced Organic Chemistry
PREREQ: Chemistry 226, 336
An advanced lecture course in Organic Chemical Reactions.

850M Advanced Inorganic Chemistry
PREREQ: Chemistry 336 (may be taken concurrently)
Theories of chemical bonding, the determination of chemical structures, and the application of modern chemical theory to classical and recent research in inorganic chemistry.

851M Advanced Inorganic Preparations
PREREQ: Chemistry 450 (may be taken concurrently)
Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques.

855M Biochemistry
PREREQ: Chemistry 226, 226L and 336, 336L
Chemistry and biochemistry of proteins, carbohydrates and lipids. Enzymes and energetics. Biological oxidation. Not open to students with credits in 368 or 366. Chemistry 855M must be taken concurrently with Chemistry 855M.

855M Biochemistry Laboratory
PREREQ: Chemistry 665M. Chemistry 665M and 855M Lab must be taken concurrently.

866M Biochemistry
PREREQ: Chemistry 865M, 865M Lab
Common laboratory for Chemistry 865M. Chemistry 866M Lab must be taken concurrently with 866M.

866M Biochemistry Laboratory
PREREQ: Chemistry 865M, 865M Lab
Common laboratory for Chemistry 865M.

899V Research in Chemistry
PREREQ: Permission of instructor and an undergraduate chemistry major (not less than 32 hours).
Individually selected research based on a plan of study.

Arranged
CIVIL ENGINEERING (C.E.)

Graduate Faculty Members:
Professors Richard E. Gibson, James Q. Hossack;
Associate Professors Joseph V. Benak, Bart Denney, Lawrence E. Ehlers, William B. LeMar, M. N. Reddy, Wilbur F. Rogers

Master of Science

This is a professional graduate degree designed to provide a broad educational background for students who wish to gain greater proficiency and assume positions of greater responsibility in the field of Civil Engineering.

Courses in the program give students a better understanding of the basic principles and methodology used in the design of civil engineering projects. Emphasis is placed on System Analysis, Decision Making, and Problem Solving.

Foundation Courses: Applicants for admission to the M.S. degree program with a major in Civil Engineering must have completed the following foundation courses with a satisfactory grade:
- Fluid Mechanics
- Soil Mechanics
- Structural Analysis
  - (or Differential Equations)
- Advanced Math for Engineers
- Engineering Systems Analysis

A student who is deficient in any of the foundation courses will be required to make up the deficiency with appropriate courses.

Degree Requirements: The degree requires a minimum of 36 semester hours for completion. A minimum of one-half of the required hours must be at the 800V level. Nine semester hours may be in a related minor field, such as business administration, mathematics, physics, chemistry, and biology.

A student may elect to submit a thesis for a maximum of six semester hours which is applicable toward the degree requirements. 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.

Course Descriptions

Civil Engineering

943M Open Channel Flow
PREREQ: Graduate standing and permission of instructor
Open channel flow; energy and momentum principles of flow; critical, uniform, and unsteady flow; flow resistance; uniform and irregular channels; channel controls and transitions.

943M Hydrology
PREREQ: GE 331
The hydrologic cycle, precipitation, infiltration, soil moisture, run-off, rainfall-runoff relationships, factors affecting the utilization and conservation of water resources.

944M Ground Water Hydrology I
PREREQ: GE 331
The occurrence, distribution, and movement of ground water; formulation and solution of differential equations pertaining to boundary conditions of steady and unsteady state.

944M Construction Management
PREREQ: Permission
Estimating and bidding, scheduling (CPM, PERT), contracts, bonds and insurance cost control systems, equipment utilization, codes and zoning.

Degree Requirements:
The occurrence, distribution, and movement of ground water: formulation and solution of differential equations pertaining to boundary conditions of steady and unsteady state.

670M Soil Mechanics II
PREREQ: CE 440 or equivalent
Complex problems in soil mechanics: the interrelationship of theory, sampling and testing; performance studies.

682M Construction Cost and Controls
PREREQ: Permission
Construction estimating, accounting, cost control; construction scheduling, computer applications.

667M Form Design and Steel Erection
PREREQ: CE 360
Design of concrete forms; design of temporary structures for steel erection.

672M Prestressed Concrete
PREREQ: CE 360
Design and analysis of members, continuous beams, slabs, and circular prestressing. Load factors. ACI code.

673M Matrix Methods of Structural Analysis
PREREQ: CE 344
Computer applications for beams, frames, trusses, grids, and space forms using flexibility and stiffness methods.

681M Plastic Analysis
PREREQ: CE 344

800V Structural Design for Dynamic Loads
PREREQ: Graduate standing and permission
Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques.

801V Special Engineering Problems
PREREQ: Graduate standing and permission
The theory and application of the accumulative knowledge from undergraduate and graduate course work to a special problem of particular interest to the student and in his field of interest. The problems should extend the knowledge and understanding of the student in the field of his specialty beyond the limits of his formal course work. The problems will be agreed upon by the faculty member and the student involved. The problem will be at a level to warrant graduate credit.

802V Thin Shell Structures
PREREQ: Graduate standing and permission
General theory of thin shells; analysis and design of hyperbolic paraboloids, folded plates, cylindrical shells, shell walls, and domes.

803V Foundation Engineering
PREREQ: Graduate standing and permission of instructor
Evaluation of subsurface conditions as they affect the behavior, proportions, and selection of foundation elements; character of natural soil deposits, bearing capacity and settlement analysis; seepage problems; stability of slopes and earth-retaining structures.

814V Bridge Design
PREREQ: CE 470, permission
The design and construction of slab, T-beam, box girder, prestressed, welded girder, composite, orthotropic and suspension bridges.
Advanced Structure Engineering

3 hours
PREREQ: Graduate standing and permission
Contemporary developments in the analysis and design of space-spanning and enclosed structures using appropriate mathematical and mechanical methods of analysis.

Advanced Sanitary Engineering

3 hours
PREREQ: Six hours of undergraduate-level courses in Sanitary Engineering
Advanced study of biological and chemical processes in sanitary engineering: activated sludge and trickling filter processes; anaerobic digestion, ion exchange and electrodialysis; wet and dry combustion; introduction to industrial waste treatment processes; and special problems in unit processes of waste treatment.

Sedimentation and Erosion

3 hours
PREREQ: Graduate standing and permission of instructor
A study of sediment movement in streams and channels. Transport of sediment on stream beds and by suspension. Evaluation of total sediment load and application to canal design.

A study in concepts of river flow and river control; concepts in channel form, bed forms, ripples and bars, scour and fill; meanders; stream power; and channel stabilization structures.

Civil Engineering Special Projects

3-6 hours
PREREQ: Graduate standing and permission
Individual students may select a special study project in some phase of civil engineering which requires advanced original thinking and the application of advanced analytical and/or experimental techniques in its completion.

Graduate Research (Thesis)

Industrial Engineering

3-6 hours
PREREQ: IE 201 or Math 355
Practicability models; programming decision theory; queuing theory; optimal cost solutions.

Operation Research II

3 hours
PREREQ: IE 209
Queuing theory forfinite populations: optimum-cost queuing solutions; inventory theory and control; Markov chains; computer simulation of stochastic chains; integer programming; non-linear programming.

Advanced Mechanics of Materials

3 hours
PREREQ: GE 232, Math 235
Stresses and strains at a point; theories of failure; pressure vessels and spinning disks; torsion, bending and shear; elastic energy methods.

Advanced Dynamics

3 hours
PREREQ: GE 232, Math 235
Euler's equations of motion, gyroscopic motion, theory of vibrations; Lagrange's equation and Hamilton's principle; motion of a variable mass; control force problems.

Advanced Fluid Mechanics

3 hours
PREREQ: GE 231, Math 235
Ideal and real fluid flow; Eulerian and Lagrangian equations of motion; potential theory; conformal transformations; turbulent flow; boundary layer theory.

Experimental Stress Analysis

3 hours
PREREQ: GE 403 or permission
Investigation of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, laser, photo-elasticity and membrane analogy.

Other Engineering Courses

Two graduate industrial technology courses are offered to fulfill requirements as cognate or selected courses on a plan of study for industrial education teachers.

Contemporary Trends in Industrial Education for the World of Construction

3 hours
PREREQ: Graduate standing
Introduction to a new program development in industrial education, with major emphasis placed upon the World of Construction curriculum.

Contemporary Trends in Industrial Education for the World of Manufacturing

3 hours
PREREQ: Graduate standing
Introduction to a new program development in industrial education, with major emphasis placed upon the World of Manufacturing curriculum.

ECONOMICS (ECON)

Graduate Faculty Members:
The Frederick W. Kayser Professor Elroy J. Steele (Chairman);
Associate Professors Justin D. Stolen, Keith K. Turner;
Assistant Professors James L. Joy, Robert McCune;
Graduate Lecturer Randall T. Klemme
Master of Arts

An applicant for admission to the program for the Master of Arts degree with a major 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 numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, 829V, and 845V.

As part of the required 30 hours, graduate course work in related fields may be taken, up to a total of not more than 9 semester hours.

Master of Science

An applicant for admission to the program for the Master of Science degree with a major 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 18 hours of the required 36 hours must be approved at the 800V-level or above. In lieu of a thesis, Economics 800V and 899V are included in the 36 hours total required. Students must also satisfactorily complete Economics 820V, 822V, 829V and 845V.

It is expected that the candidate for the Master of Science degree with a major in economics will concentrate required research 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.

As part of the required 36 hours, graduate course work in related fields may be taken, up to a total of not more than 12 semester hours.

Course Descriptions

811M Government and Labor (I) 3 hours
PREREQ: Econ 315
Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

812M Urban Geography (Same as Geography 812M) (I, II) 3 hours

818M Collective Bargaining (III) 3 hours
PREREQ: Econ 315
A study of the issues, structures and procedures involved in collective bargaining, and the settlement of disputes, as centered around the labor-management contract.

821M Advanced Firm and Industry Theory (I) 3 hours
PREREQ: Econ 320
The effects of changes in conditions of supply and demand under alternative market structures affecting the firm and industry are examined. General equilibrium and welfare economics are introduced.

822M Advanced Macroe-Theory (III) 3 hours
PREREQ: Econ 322
A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical paths being explored.

825M History of Economic Thought (III) 3 hours
PREREQ: Econ 201, 205
From Mercantilism to the modern period. Focus is on the interactions of institutional milieu, thought and economic doctrine.
This seminar develops modern micro-economic theory with emphasis on utility functions and demand, production functions and cost, price and non-price policy of the firms, market and multi-market equilibrium. Emphasizes theoretical methods and techniques as well as specific content.

PREREQ: Econ 320

**PREREQ: Graduate standing in the College of Business Administration.**

Microeconomic theory for graduate students of Business. Economic analysis of the business firm and its environment, with emphasis on market structure, production possibilities, and cost factors. Recent developments in the theory of the firm and operations research will be investigated.

**PREREQ: Econ 322**

A brief review of the standard national income accounting and the more recent development of the flow-of-funds analysis. A study of the evolution and establishment of the Keynesian economics, its relationship to the classical macro-theory and the many refinements of the Keynesian model. To learn some extensions of the Keynesian theory, especially in connection with inflation, investment, and economic growth. A development of understanding of recent work in fiscal and monetary theory.

**PREREQ: Graduate standing in the College of Business Administration.**

A study of modern income theory and policy. The development of modern aggregate theory is reviewed. Recent fiscal and monetary policies regarding employment, inflation, investment, and economic growth are examined. Problems of applying policy in a dynamic economic environment are emphasized.

**PREREQ: Permission of Instructor**

The application of specific mathematical and statistical procedures to business and economic research.

**PREREQ: Permission of Instructor**

The study of the underlying assumptions, techniques, and applications of single and multiple equation regression analysis in economics.

**PREREQ: Six hours in undergraduate monetary courses or permission of the instructor**

Original research and writing of papers on basic problems in the area of money and banking. Required of all Economics majors.

**PREREQ: Econ 355 or 456 or permission of instructor**

Original research and critique of current issues in international economic theory, policy and institutions.

**PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.**

Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. (Also listed under Geography, Political Science and Sociology.)

**PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.**

An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in a broad, integrated focus. (Also listed under Geography, Political Science and Sociology.)

**PREREQ: At least 6 hours of upper division course work in economics or permission of the instructor**

An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution.

**PREREQ: At least 6 hours of upper division course work in economics or permission of the instructor**

An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and analyzing economic problems of a regional nature. In addition, policy alternatives, decision making, and measurement techniques are examined.

**PREREQ: Permission of graduate adviser**

For Master of Science Degree candidates in Economics only. In lieu of thesis. Consists of a study in Urban Economic Problems, employing research techniques. Students do independent research consulting with adviser, and submitting completed reports to a departmental committee.

**PREREQ: Permission of graduate adviser**

An independent research project, written under the supervision of a graduate adviser in the department of Economics. Approval of the topic and the completed project by the student's departmental committee is required.

**Course Descriptions**

**PREREQ: At least 6 hours of upper division courses in recreation or permission.**

Designed to provide a background of information on community recreation with special attention to organization, promotion, and development of recreational programs.

**PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.**

An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in a broad, integrated focus. (Also listed under Geography, Political Science and Sociology.)

Graduate courses in educational foundations are offered to fulfill requirements of departments offering graduate degrees in education or as cognate or selected courses on a plan of study.

**Course Descriptions**

**PREREQ: Permission of Instructor**

The application of specific mathematical and statistical procedures to business and economic research.

**PREREQ: Permission of Instructor**

The study of the underlying assumptions, techniques, and applications of single and multiple equation regression analysis in economics.

**PREREQ: Permission of Instructor**

The study of the underlying assumptions, techniques, and applications of single and multiple equation regression analysis in economics.

**PREREQ: Six hours in undergraduate monetary courses or permission of the instructor**

Original research and writing of papers on basic problems in the area of money and banking. Required of all Economics majors.

**PREREQ: Econ 355 or 456 or permission of instructor**

Original research and critique of current issues in international Economic theory, policy and institutions.

**PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.**

Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. (Also listed under Geography, Political Science and Sociology.)

**PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.**

An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in a broad, integrated focus. (Also listed under Geography, Political Science and Sociology.)
Advertising Materials in Education
A basic course in the production of inexpensive advertising materials for the classroom. Graphic, photographic, and auxiliary materials are considered, including such instructional materials as slides, films strips, dramatizations, and exhibits. (II, S) 3 hours

Administration of the Instructional Materials Center
A course designed for students who wish to prepare themselves for the administration of an educational media program within an elementary and/or secondary school. (II, S) 3 hours

Measurement and Evaluation in Physical Education
An examination of tests, measurement apparatus and testing procedures used in physical education. Includes a study of basic statistics. Practical experience in test administration in the schools is provided. (II, S) 3 hours

Physiology of Exercise
The response of human systems to exercise and physical conditioning programs. Includes a study of the physiological basis of muscular strength, endurance, and cardiovascular stress; the effects of nutritive aids on physical performance; and physiological principles of conditioning and fitness programs. (II, S) 3 hours

Growth and Learning Problems of Disadvantaged
A course designed to help students develop a basic understanding of child growth and development and learning problems of disadvantaged children and youth. (II, S) 3 hours

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

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

History and Philosophy of Education
An intensive survey of the historical and philosophical foundations of American education; special emphasis is placed on the economic, industrial, cultural, and social conditions that have shaped or are influencing American education. (II, S) 3 hours

Communication for Teachers of the Disadvantaged
An intensive interdisciplinary course dealing with the nature of the disadvantaged pupil, communication skills for teachers, and group interaction for the instructional teams working with low-income pupils. (II, S) 3 hours

Comparative Education
An intensive study of the educational systems of selected nations found in Europe, Asia, Latin America, and Africa; particular emphasis is placed on a total study of the society selected and its resulting educational directions. (II, S) 3 hours

Seminar in Education
Systematic study of the problems and developments which have current significance to American or foreign education; individual student and group analysis emphasized. (II, S) 3 hours

Education and Society
An interdisciplinary study of the problems that modern society is confronted with and the role(s) that education has in helping society meet its challenges; particular emphasis on education policy and decision making processes. (II, S) 3 hours

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

The Urban School
An analysis of the societal and institutional processes and problems which have bearing upon the education of children in urban settings. A study of the urban school. (II, S) 3 hours

Research Project
Individual or group study and analysis of specific problems in schools. (II, S) 3 hours

Problems and Issues in Physical Education
An examination of current problems and issues in college secondary, and elementary physical education. Special emphasis is given to problems that relate to the general aims and purposes of physical education. (II, S) 3 hours

Supervision of Physical Education
Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the supervision of programs in physical education. (II, S) 3 hours

Curriculum in Physical Education
A study of the foundations for curriculum development and related educational programs. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education. (II, S) 3 hours

Analysis of Research and Literature in Human Movement
Survey of research and literature in human movement for the purpose of orienting the student to possible areas of research and developing an understanding and appreciation of writings in the field. (II, S) 3 hours

Improvement of Instruction in Physical Education
An analysis and discussion of current programs, content, methods, and materials within physical education. Emphasized is the improvement of each individual's teaching in the physical education setting. (II, S) 3 hours

Motor Learning and Performance
A study of conditions and factors which influence the learning and performance of motor skills; particular attention given to those skills having relevance for the teacher of physical education. (II, S) 3 hours

Kinesiological Analysis of Motor Skills
An investigation of the biomechanical basis of motor performance. Emphasized is a descriptive analysis of fundamental movement forms and an examination of techniques for collecting kinesiological data. (II, S) 3 hours

Practicum Internship
(PREREQ: Teacher Corps) 2-8 hours

Thesis
Independent research project written under the supervision of an advisor. (I, II) 1-6 hours

ELEMENTARY EDUCATION (ELED)

Graduate Faculty Members:
Professors Robert L. Ackerman, Hollie B. Bethel (Chairman); Associate Professor Helen Howell; Assistant Professor Thomas Nenneman

Master of Arts

Programs for the Master of Arts degree with a major in elementary education will be determined by the major adviser upon request.
Master of Science

Students pursuing a Master of Science degree with a major in elementary education shall be expected to take selected courses in areas outside of the field of elementary education as indicated in the following program outline.

1. Selected Cognate Courses
   - 6-9 hours

2. Required Courses
   - 21 hours
   - FED 801V, Introduction to Research
   - FED 802V, History and Philosophy of Education
   - EED 810V, Diagnostic and Corrective Instruction
   - EED 811V, Innovations and Trends in Elementary Education
   - EED 824V, Introduction to Curriculum Planning—Elementary
   - EED 823V, Seminar in Elementary Education
   - EDAD 840V, Administration and Supervision in Elementary Schools

III. Selected Courses
   - 6-9 hours
   To be determined by student and his adviser

Course Descriptions

623M Literature for Children and Youth
   - (1, II, S) 3 hours
   Selection, evaluation and guidance in various types of literature for the elementary and junior high school levels.

637M Current Trends in Early Childhood Education
   - 3 hours
   A survey of the problems involved in setting up and implementing a program for the child from birth to age six years of age. Recent trends will be investigated as they apply to the above activity.

680V Special Studies
   - (1, II, S) 3 hours
   A series of intensive courses especially for teachers in-service—scheduled as regular seminars, workshops, according to purpose.

811V Research Project
   - (1, II, S) 3 hours
   Individual or group study and analysis of specific problems in schools.

819V Diagnostic and Corrective Instruction
   - (1, S) 3 hours
   A study of methods of diagnosing children's difficulties in all subject areas of the educational program of the elementary school and corrective techniques for overcoming such problems.

820V 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 recent developments in science instruction, the methods, materials, philosophy, and emphasis in instruction, which are characteristic of these programs.

821V Improvement of Instruction in Elementary Mathematics
   - 3 hours
   An examination of the philosophy, 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.

840V Innovations and Trends in Elementary Education
   - 3 hours
   PREREQ: FED 801V
   Designed as an advanced study for the purpose of exploring current trends and developments within the various subject matter areas of the elementary school.

843V Introduction to Curriculum Planning—Elementary
   - (1, S) 3 hours
   PREREQ: FED 801V
   A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate content and methods of curriculum reorganization.

844V Seminar in Elementary Education
   - 3 hours
   PREREQ: FED 801V
   A study of educational problems as they relate to the elementary school, to be taken in the last nine months of the Master of Science degree.

845V Seminar in Supervision of Student Teachers—Elementary
   - (1, II, S) 3 hours
   PREREQ: 2 years of teaching experience
   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.

870V Practicum in Elementary Education
   - 3-6 hours
   PREREQ: Permission of advisor and of ad hoc committee for non-certified
   This practicum is designed for a selected group of graduate students who are participating in the graduate program in elementary education. Participants in the practicum will be students with bachelor's degrees in fields other than elementary education. The six-hour practicum experience will consist of one semester of full-time teaching in an elementary school under the supervision of graduate faculty of the Department of Elementary Education. (Half-time teaching will grant 3 hours of credit.)

871V Advanced Practicum in Elementary Education
   - 3 hours
   PREREQ: Permission of advisor and of ad hoc committee for non-certified students and satisfactory completion of EED 870V. Practicum is Elementary Education.
   This practicum will demand an increased responsibility of the student for one semester and a concomitant increase in variety of experiences, based upon his individual needs. EED 871V is a continuation and refinement of the quality of teaching based upon his performance during his first practicum experience (EED 870V).

899 Thesis
   - 1-9 hours
   Independent research project required of all students taking Master of Arts degree. See major adviser.

SECONDARY EDUCATION (SED)

Graduate Faculty Members:
Professors Paul B. Ackerson, Leta Holley (Emeritus), Raymond A. Ziebarth (Chairman);
Associate Professors M. Jean Bressler, Barbara L. Brillhart, Dale M. Buesen, Donald J. Grandgenett, Edward J. Sadler

Master of Arts

Programs for the Master of Arts degree with a major in secondary education will be determined by the major advisor upon request.

Master of Science

I. Required Courses
   - 6 hours
   FED 801V, Introduction to Research
   FED 802V, History and Philosophy of Education
   SED 825V, Seminar in Secondary Education

II. Related Professional Courses
   - 3 hours of EED 833V and EED 834V strongly recommended

III. Related Cognate Courses
   - 12-18 hours
   Generally selected from areas related to student's teaching field

Course Descriptions

840E Principles of Vocational Education
   - 3 hours
   A study of the basic philosophy underlying vocational education and the principles and practices in the various fields.

847E 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.

860V Special Studies
   - (1, II, S) 3 hours
   A series of intensive courses especially for teachers in service—scheduled as regular seminars, workshops, according to purpose.

881V Research Project
   - (1, II, S) 1-3 hours
   Individual or group study and analysis of specific problems in schools.
   Typical problems may include surveys, school finances, transportation, school building construction, maintenance and operation, curriculum, and pupil personnel.
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831V Seminar in Secondary Education
3 hours
Intensive study of problems of secondary education. Critical analysis of current research and related literature, group and individual work on problems of group interest and relevance to secondary education.

833V Emerging School Curriculum
3 hours
Designed to provide the student with understanding of the nature and trends in secondary school curriculum development, and the principles and practices in curriculum planning.

834V The Junior High School
This course is designed to acquaint the graduate student with the philosophy, objectives and functions of the junior high school program.

835V Analysis of Teacher Behavior
3 hours
Emphasis is placed upon current observational systems for analysis of Teacher Behavior in a classroom setting. Specific topics include in-depth instruction to Interaction Analysis, Micro-teaching, Non-verbal Behavior and Simulation. Student preference in these observational systems using video-tape equipment is stressed.

The following courses are concerned with the secondary school in light of the nature and needs of the adolescent child and in relation to the goals of education.

836V Improvement of Instruction of Secondary School Science
3 hours each
Emphasis is placed upon current instructional practices and research in secondary school science education. Teachers are encouraged to participate in research projects in their own classrooms.

837V Improvement of Instruction of Secondary School Social Studies
3 hours
Emphasis is placed upon current instructional practices and research in secondary school social studies education. Teachers are encouraged to participate in research projects in their own classrooms.

838V Improvement of Instruction of Secondary School Mathematics
3 hours
Emphasis is placed upon current instructional practices and research in secondary school mathematics education. Teachers are encouraged to participate in research projects in their own classrooms.

839V Foundations in Business Education
3 hours
Designed to develop a deeper and broader understanding of business education; to identify and define business education and to examine its past, present, and future role in the total education pattern of our country in today's world.

840V Improvement of Instruction of Secondary School Social Studies
3 hours
Emphasis is placed upon current instructional practices and research in secondary school social studies education. Teachers are encouraged to participate in research projects in their own classrooms.

841V Improvement of Instruction of Secondary School English—Literature and Rhetoric
3 hours
Emphasis is placed upon current instructional practices and research in secondary school English—Literature and Rhetoric. Teachers are encouraged to participate in research projects in their own classrooms.

842V Improvement of Instruction of Secondary School Science
3 hours
Emphasis is placed upon current instructional practices and research in secondary school science education. Teachers are encouraged to participate in research projects in their own classrooms.

843V Science Education Seminar
3 hours
A graduate seminar in K-12 science education emphasizing research, newly developed science curricula, curriculum planning, science supervision and treatment of one or more localized science education issues.

844V Improvement of Instruction of Science, Harvard Project Physics
3 hours
Emphasis is placed upon current instructional practices and research in secondary school science education. Teachers are encouraged to participate in research projects in their own classrooms.

845V Improvement of Instruction of Science, Earth Science Curriculum Project
3 hours
Emphasis is placed upon current instructional practices and research in secondary school science education. Teachers are encouraged to participate in research projects in their own classrooms.

846V Problems of Vocational Business Education
3 hours
Designed for teachers of vocational education to develop a better understanding of the purposes, philosophy, current practices and trends in business education.

877V Vocational Curriculum Construction
3 hours
A course designed for teachers, supervisors, coordinators and administrators of vocational education. The course includes principles, needs, factory, and trends that should be considered in developing a vocational education curriculum.

895 Thesis
1-6 hours
Required of all students taking Master of Arts degree, see major adviser for information.

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936 Seminar in Applications of Non-Verbal Communication Theory
3 hours
Prereq: Course in research methods or permission of instructor. Studies and research on the development, facilitation and barriers of human non-verbal communication. Analysis of non-verbal interaction with specific applications to education, business management, counseling, therapy and interpersonal speech communication. (Crosslisted as Psychology 536 and Speech 555.) (B. Brilhart)

COUNSELING AND GUIDANCE (COUN)

Graduate Faculty Members:
Professors Richard Blake (Chairman); B. Gale Oleson;
Associate Professor Donald Pfisterer;
Assistant Professors Robert Butler, Scott Harrington, Harl Jarmin,
Ross A. Pilkington, Richard Strange

Programs in Counseling and Guidance are arranged on an individual basis. Area of frequent specialization, however, are secondary school counseling, elementary school counseling, agency counseling and student personnel services. Required courses are determined in relation to the student's previous course work, experience and anticipated work setting. For interested students, an emphasis on counseling with the urban disadvantaged may be developed within their program. Most programs would fit within one of the general outlines given below. Students are permitted to continue programs in Counseling and Guidance on the basis of their potential for successful training and professional practice.

Master of Arts
Programs for the Master of Arts degree with a major in counseling and guidance will be determined by the major adviser upon request.

Master of Science
Specialization in Agency Counseling
I. Foundation Course
FED 801V, Introduction to Research
3 hours
II. Selected Cognate Courses
6-15 hours
These courses are selected in accordance with student's particular area of interest.

III. Counseling and Guidance Courses
22-28 hours
COUN 825V, Principles of Guidance and Counseling
COUN 829V, Counseling Techniques
COUN 826V, Occupational and Educational Information
COUN 827V, Supervision in Counseling and Guidance
COUN 828V, Counseling Practice
COUN 829V, Community Involvement for Urban Counselors
Selected additional courses in the department.

Specialization in School Counseling—Secondary Level*
I. Foundation Course
FED 801V, Introduction to Research
3 hours
II. Selected Cognate Courses
6-15 hours
These courses are most often selected from offerings of the Psychology, Sociology, Elementary Education and Special Education departments.

*Teaching certificate required for institutional endorsement to serve as secondary or elementary school counselors in Nebraska or Iowa.
III. Counseling and Guidance Courses 19-28 hours
COUN 803M, Principles of Guidance and Counseling 3 hours
COUN 829V, Introduction to Counseling Theories 3 hours
COUN 825V, Occupational and Educational Information 3 hours
COUN 823V, Appraisal Techniques in Counseling and Guidance 3 hours
COUN 822V, Counseling Practices 3 hours
COUN 825V, Counseling Practicum 3 hours
Selected additional courses in the department.

Specialization in School Counseling—Elementary Level* 6-12 hours
I. Foundation Course 3 hours
FED 801V, Introduction to Research 3 hours
II. Selected Cognate Courses 9-12 hours
These are most often selected from offerings of the Psychology, Sociology, Elementary Education and Special Education departments.
III. Counseling and Guidance Courses 19-27 hours
COUN 803M, Principles of Guidance and Counseling 3 hours
COUN 829V, Introduction to Counseling Theories 3 hours
COUN 831V, Child Assessment in Elementary School Guidance 3 hours
COUN 822V, Counseling Elementary School Children Practicum or Internship 3 hours
Selected additional courses in the department.

Specialization in College Student Personnel Services 6-12 hours
I. Foundation Course 3 hours
FED 801V, Introduction to Research 3 hours
II. Selected Cognate Courses 9-12 hours
These courses are selected in accordance with the student's particular area of interest. Most often these courses are taken in the departments of Sociology and Psychology.
III. Counseling and Guidance Courses 19-27 hours
The pattern of coursework is individually designed to prepare the student for specific roles within the field of student personnel services, i.e., Admissions and Registrations, Counseling, Housing, Financial Aid, Placement and Student Activities.

Course Descriptions
COUN 803M Principles of Guidance 3 hours
Basic principles underlying guidance and counseling practices in the United States. It is a recommended course for students in other departments who wish to have some understanding of professional guidance and counseling.

COUN 891V Group Evaluation Techniques 3 hours
A survey course dealing with the several kinds of measurement and evaluation of the instructional programs of elementary and secondary schools. Use of standardized group tests, construction of classroom tests, use ofthe cumulative record, the basic sociometric and projective techniques are included in this course.

COUN 892M Guidance in the Elementary School 3 hours
A study of the principles, practices and dimensions of elementary school guidance. No credit for guidance majors.

COUN 892V Special Studies in Counseling and Guidance 3 hours
PREREQ: Permission of department
Intensive courses scheduled as regular seminars or workshops, according to purpose.

COUN 891V Research Project in Counseling and Guidance 3 hours
PREREQ: Permission of instructor
Individual or group study and analysis of specific problems in counseling and guidance.

COUN 892V Introduction to Counseling Theories 3 hours
PREREQ: COUN 803M
Study of contemporary theories of counseling, the counseling process and methods.

*Teaching certificate required for institutional endorsement to serve as secondary or elementary school counselor in Nebraska or Iowa.
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ADVANCED STUDIES IN COUNSELING (810U) 2-3 hours
PREREQ: Coun 820V and 825V or 835V
An intensive study of selected counseling theories, methods and research.

COUNSELING WITH PARENTS (815U) 2 hours
PREREQ: Coun 831V or 835V
A course emphasizing techniques used in working with parents. Also recommended for other departments training counselors who may wish to have greater understanding in working with parents.

ADVANCED COUNSELING PRACTICUM (816U) 2-3 hours
PREREQ: Coun 825V or 850 V and permission of department
Continuation of Practicum in Counseling.

GUIDANCE AND COUNSELING SEMINAR (817U) 2 hours
PREREQ: Permission of department
The consideration of topics having current relevance to guidance and counseling.

RESEARCH PROJECT IN COUNSELING AND GUIDANCE (818U) 2-3 hours
PREREQ: Permission of department
Research study on a problem in the area of guidance and counseling.

SPECIAL EDUCATION (SPED)
Graduate Faculty Members:
Professor Donald Cushenbery;
Associate Professors Aaron Armfield (Chairman), James M. Wood;
Assistant Professors James Akers, Roger R. Harvey, Kathleen McKenney;
Graduate Lecturers Craig Fullerton, Edward LaCrosse

MASTER OF ARTS WITH A MAJOR IN SPEECH PATHOLOGY
The Master of Arts degree with a major in speech pathology involves these requirements:
1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)
2. Have successfully completed a minimum of twenty-six semester hours of work preparatory to admission to the major. These hours are to include the following courses or their equivalents: SPED 341, Introduction to Communication Disorders; SPED 437, Basic Audiology; SPED 438, Auditory and Speech Mechanisms; SPED 442, Psychology of Speech; SPED 443, Speech Pathology II: Rhythm and Symbolization; SPED 445, Phonetics; SPED 450, Speech Correction in the Elementary and Secondary Schools.
3. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)
4. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:

I. REQUIRED COURSES
   FED 801V Introduction to Research
   SPED 853V Advanced Problems
   SPED 870V Seminar in Special Education
   SPED 846V Speech Evaluation
   SPED 848V Advanced Audiology

II. ELECTIVE COURSES
   Students may choose any of the courses in the area numbered 800V or above.

5. THESIS:
   Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of his committee.

   WITH A MAJOR IN MENTAL RETARDATION
   The Master of Arts degree with a major in mental retardation is a program primarily designed for persons certified or those near certification in special education. It involves a concentrated course of study designed to improve and advance competencies in the area of mental retardation and to provide investigative approaches to problems associated with children who are mentally retarded. Requirements include:
   1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Graduate Dean and the major adviser.
   2. Applicants should hold a teaching certificate in special education or be within 15 credit hours of certification.
   3. Students may undergo course work which will lead to:
      a. a major of 24 hours in mental retardation.
      b. a thesis not to exceed six semester hours.
      OR:
      a. a major of 15 semester hours in mental retardation.
      b. a minor of nine semester hours in a related field of interest.
      c. a thesis not to exceed six semester hours.
   4. To be admitted as a candidate for the M.A. degree in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.
   5. Each candidate will submit a thesis proposal to his committee for approval. A thesis will represent six semester hours in independent study under the direction of the major adviser.
   6. Subject to review of the applicants transcripts and related experiences with retarded children, required courses may be selected from the following:
      a. REQUIRED COURSES:
         FED 801V Introduction to Research
         SPED 870V Seminar in Special Education
         SPED 872U Practicum in Special Education
         SPED 899 Thesis
      b. Elective courses may be chosen from any of the 800V level courses within the major and minor area of study.

   MASTER OF SCIENCE
   MAJOR IN READING
   The Master of Science degree with a major in reading conforms to standards of the International Reading Association for the professional training of Reading Specialists. Applicants for admission must be eligible for teacher certification at the undergraduate level. The following program of studies will prepare the student as a teacher of reading at either the elementary or secondary level.
I. Required Courses

The Master of Science degree with a major in speech pathology involves these requirements:

1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)

2. Have successfully completed a minimum of thirty-two semester hours of college work to admission to the major. These hours are to include the following courses or their equivalents:
   - SPED 431, Introduction to Communication Disorders
   - SPED 433, Reading and Auditory Training
   - SPED 434, Auditory and Speech Mechanisms
   - SPED 442, Psychology of Speech
   - SPED 443, Speech Pathology I: Auditory and Articulation
   - SPED 444, Speech Pathology II: Rhythm and Synchronization
   - SPED 445, Articulation and Auditory Training
   - SPED 450, Speech Correction in the Elementary and Secondary Schools
   - SPED 451, Basic Practicum Speech
   - SPED 475, Language Development of Exceptional Children

3. For those students who wish to work toward special state certification in the schools, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)

4. Thirty-six hours of coursework and practicum. These hours may be taken from the following:

   I. Required Courses
   - FED 801V, Introduction to Research
   - SPED 812V, Advanced Studies in Disorders of Articulation
   - SPED 823V, Advanced Studies in Disorders of Rate and Rhythm
   - SPED 841V, Advanced Studies in Disorders of Aphasia and Related Problems
   - SPED 843V, Speech Evaluation
   - SPED 847V, Neurophysiology
   - SPED 848V, Advanced Audiology
   - SPED 851V, Advanced Practicum Speech
   - SPED 852V, Advanced Practicum Speech
   - SPED 853V, Advanced Problems
   - SPED 876V, Seminar in Special Education

   II. Elective Courses
   - SPED 881V, Current Practice in Speech Pathology
   - SPED 882V, Basic Practicum Speech
   - SPED 883V, Articulatory Speech Rehabilitation
   - SPED 884V, Speech Problems of Cerebral Palsied Children
   - SPED 886M, Learning Disabilities
   - SPED 887M, Speech Reading and Auditory Training
   - SPED 888M, Teaching of Speech to the Deaf I
   - SPED 889V, Teaching of Speech to the Deaf II
   - SPED 890M, Introduction to the Mentally Subnormal Child
SPED 675V, Seminar in Special Education
One course surveying language difficulties (or other equivalent course)

SPED 680V, Introduction to Speech and Hearing Disorders

SPED 687M, Language Development of Exceptional Children
One course concerning evaluation techniques (or other equivalent course)

SPED 685V, Diagnosis of Learning Disabilities

Psych 822V, Testing and Measurement
Psych 831M, Psychological and Educational Testing

II. Electives
SPED 840M, Learning Disabilities

SPED 846M, Developmental

SPED 855M, Introduction to the Physically Handicapped

SPED 860V, Vocational Training of the Mentally Retarded

SPED 871V, Parent-Professional Relationship in Special Education

SPED 880V, Methods and Materials for Teaching Crippled

SPED 889U, Administration and Supervision of Special Education

Major in Teaching the Emotionally Disturbed**

I. Required Courses
SPED 801V, Introduction to Research

SPED 809V, Teaching the Exceptional Child

SPED 890M, Emotional Development of Children and Youth

SPED 891M, Classroom Techniques for Behavior Control

SPED 897V, Seminar in Special Education

SPED 872V, Basic Observation and Student Teaching of Special Education

SPED 874V, Advanced Observation and Student Teaching of Special Education

II. Electives
SPED 871V, Parent-Professional Relationship in Special Education

SPED 895M, Clinical Observation of the Multi-Handicapped

SPED 896M, Learning Disabilities

Psych 856M, Personality Theories

Psych 851V, Advanced Educational Psychology

Psych 857V, Behavior Modification

(NPI) 851, Developmental Psychology

(NPI) 852, Group Dynamics

Course Description

812M Reading Diagnosis and Remediation for the Elementary Classroom Teacher

3 hours

PREREQ: TED 450 or permission of instructor

This course is designed for future elementary classroom teachers and
and graduate students who wish to develop a better understanding of
reading problems, their assessment and their remediation.

822M History: Education and Guidance of the Deaf

1 hour

History of trends in deaf education culminating in current problems,
practices and attitudes; survey of teaching and guidance opportunities;
psychological problems of the deaf child.

812M Teaching of Speech to the Deaf I

1 hour

Methods and practice in teaching speech to the deaf child; special
emphasis on tactile, visual and auditory techniques.

812M Teaching of Speech to the Deaf II

1 hour

Continuation of SPED 421; focus on various types of speech
learning problems found in a population of deaf children.

822M Teaching of Language to the Deaf I

1 hour

Philosophy of development of functional language for the deaf child;
methods and materials for developing English language skills and
comprehension.

**The Master of Science degree with a major in teaching the emotionally disturbed
includes courses that lead to certification. Prerequisites include a course in child
development and state certification in at least one teaching field. The number of
candidates for the degree will be restricted.

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864M Methods and Materials for Teaching the Mentally Retarded (I, II, S) 3 hours
This course discusses the planning and delivery of educational programs specially designed to meet the needs of the mentally retarded. It focuses on the development of instructional strategies and techniques appropriate to the needs of the mentally retarded child.

875M Language Development of Exceptional Children (I) 3 hours
This course covers the development of language skills in gifted children, including strategies for teaching language to exceptional children.

870M Methods and Materials for Teaching the Gifted (S) 3 hours
This course focuses on the methods and materials for teaching gifted children, including understanding the specific development needs of gifted pupils and identifying and implementing appropriate instructional services for them.

875M Language Development of Exceptional Children (I) 3 hours
This course covers the development of language skills in exceptional children, including strategies for teaching language to exceptional children.

885M Introduction to Research Projects (I) 3 hours
This course introduces students to the research process, including the formulation of research questions, literature review, data collection, and analysis.

890M Emotional Development of Children and Youth (I, S) 3 hours
An introduction to the emotional development of children and youth. The course focuses on understanding the emotional needs of children and youth and how to address them.

891M Classroom Techniques for Behavior Control (II) 3 hours
This course provides techniques for managing behavior in the classroom, including strategies for addressing disruptive behavior.

892M Introduction to the Education of the Physically Handicapped (I, II) 3 hours
This course covers the education of physically handicapped children, including identification, assessment, and instructional strategies.

895M Clinical Observation of the Multi-Handicapped (II) 3 hours
This course provides an opportunity for students to observe and learn about the clinical care of multi-handicapped children.

900V Special Projects (I, II, S) 1, 2, or 3 hours
A series of intensive courses for teachers in-service, workshops, or seminars, focusing on specific educational needs.

906 Teaching the Exceptional Child (I, II, S) 3 hours
This course provides methods and materials for teaching the exceptional child, including identification, assessment, and instructional strategies.

907 Introduction to Speech and Hearing Disorders (II) 3 hours
This course covers the identification and treatment of speech and hearing disorders, including assessment, intervention, and prevention.

910V Research Projects (I, II, S) 3 hours
Individual or group study and analysis of specific problems in schools.

915 Diagnostic and Remedial Instruction in Reading (I, II) 3 hours
A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediation of reading disabilities.

914V Measurement and Evaluation of Reading (I, II, S) 3 hours
A course for advanced students in reading which will provide the student with the necessary training for establishing and operating a reading center including selecting and applying referral, formulating evaluation schedules, administering appropriate evaluative devices, writing case reports and establishing follow-up sessions.

915V Clinical Practice in Reading (I, II, S) 3 hours
A laboratory-oriented course for advanced students in reading which will provide them with practical training in the use of clinical reading techniques in order that they might qualify as reading specialists.

916V Reading Problems of the Disadvantaged Child (I, II) 3 hours
Investigation relating to causes of reading difficulties of the culturally disadvantaged; methods and materials; demonstration of individual and group reading remediation procedures.

917V Advanced Studies in the Disorders of Voice (I, II) 3 hours
This course covers the disorders of voice, including pathological and vocal problems associated with individual involvement, practice. (Lec. 2, Lab. 3)

918V Advanced Studies in the Disorders of Hearing (I, II) 3 hours
This course covers the disorders of hearing, including evaluation periods in speech and hearing centers.

924V Current Practices in Speech Pathology (I, II, S) 3 hours
This course provides an investigation of stuttering theories and therapies, special emphasis on rehabilitation procedures associated with individual involvement, practice. (Lec. 2, Lab. 3)

925V Current Practices in Speech Pathology (I, II, S) 3 hours
This course provides an investigation of stuttering theories and therapies, special emphasis on rehabilitation procedures associated with individual involvement, practice. (Lec. 2, Lab. 3)

926V Current Practices in Speech Pathology (I, II, S) 3 hours
This course provides an investigation of stuttering theories and therapies, special emphasis on rehabilitation procedures associated with individual involvement, practice. (Lec. 2, Lab. 3)

927V Current Practices in Speech Pathology (I, II, S) 3 hours
This course provides an investigation of stuttering theories and therapies, special emphasis on rehabilitation procedures associated with individual involvement, practice. (Lec. 2, Lab. 3)
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852V Advanced Clinical Practicum in Speech Pathology
PREREQ: 551
The second semester of advanced clinical practicum. The student is placed in an "clinical internship" setting with a cooperating master clinician. A minimum of 45 clock hours of work is required for each credit hour per semester.

853V Advanced Problems in Speech Pathology
PREREQ: 5546 and four hours Speech Pathology and Graduate Standing
Students select and investigates three different areas of current concern in Speech Pathology: initial annotated bibliographies, presentation of observation and conclusions of findings. Instructor will base his lectures on topics chosen by students; clinical demonstrations of selected voice, speech and language problems.

855V A laryngeal Speech Rehabilitation
PREREQ: Graduate Standing and 6 hours Speech Pathology courses including voice problems
Problems of voice and speech rehabilitations for the individual without a functional larynx; social, emotional, and medical considerations as well as clinical procedures for esophageal, pharyngeal and buccal speech; implications for use of artificial larynx; current research pertinent to this area.

856V Speech Problems of Cerebral Palsied Children
PREREQ: Speech Pathology 304V
Identification of types of cerebral palsy by a location of lesion, motor symptomology, and additional handicaps: the role of the speech clinician on the team; types of speech therapy, with special emphasis on the Bobath approach; current research and controversial issues will be discussed.

856V Vocational Training of the Mentally Retarded
PREREQ: 5546
Consideration of the following aspects of treatment of the mentally retarded: vocational training and evaluation, on the job training, vocational placement, working with related disciplines, follow-up services.

870V Seminar in Special Education
PREREQ: 550V, 5546, 656V
Graduate course primarily for Special Education majors and professionl workers in the field of speech and hearing, teaching the mentally retarded, remedial reading and teaching the physically handicapped. Familiarity with philosophy, major literature and techniques in each area; student will research and present a paper reflecting his personal professional interests, discussions, forums, and panels; visiting experts.

871V Parent-Professional Relationships in Special Education
PREREQ: 550V
Professionals dealing with handicapped children became aware that a child's handicap affects the family unit and the community. Conversely, the family unit and the community influences the child's adjustment to his handicap. This course deals with the development of positive relationships between parents and professionals.

872V Basic Observations and Student Teaching in Special Education
PREREQ: 551V, 552V
Classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar.

873V Advanced Observations and Student Teaching in Special Education
PREREQ: 654V
A second semester of classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar.

885V Methods and Materials for Teaching the Physically Handicapped
PREREQ: 550V and Intro. to the Education of the Physically Handicapped
Consideration of the physically handicapped child as his unique characteristics require the development of specialized methods and materials designed to meet his learning needs; an investigation of practices and problems involved in methodology and materials; application of methods; development and evaluation of materials; practices in design and implementation of methods and materials; selected observation of programs.

University of Nebraska at Omaha

889V Thesis
PREREQ: 551V
Required of all students taking Master of Arts degree, see major adviser for information.

873U Basic Practicum in Special Education
PREREQ: 5546
This course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student.

890V Administration and Supervision of Special Education
PREREQ: Ed. 560V, Ed. Ad. 660V, and Ed. Ad. 680V and Admission to the Education Specialist Program
The course provides a concentrated experience in dealing with specific problems in the administration and supervision of special education. The "case study" method will be utilized to develop a systematic approach to problem solving. Real and hypothetical cases will be presented. This course is based on the modern behavioral oriented science of administration.

911V Problems of Teaching Reading-Elementary
PREREQ: 551V
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 (Cushenberry).

912V Problems of Teaching Reading-Secondary
PREREQ: 551V
An advanced course in reading for elementary or secondary teachers. Major emphasis will be given to the administration, organization, evaluation, materials, and methods of the teaching of reading in each of the areas of the subject and junior and senior high school levels (Cushenberry).

917 Seminar in Organization and Administration of Reading Programs
PREREQ: One graduate Reading course, or equivalent) and permission of instructor
Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and are prepared in the field of reading by the administration and related reading programs. Familiarity with the philosophy, organization, and major research related to different reading programs will be emphasized. Local and area reading authorities will conduct panels and lectures on topics chosen by the students (Cushenberry).

EDUCATIONAL ADMINISTRATION AND SUPERVISION
(EDAD)

Graduate Faculty Members:
Professors Kenneth Burkholder, Darrell F. Kellams (Chairman); Paul C. Kennedy, Kirk E. Naylor, Robert C. O'Reilly, George R. Reichard; Assistant Professor Charles M. Wilson

Master of Arts

Programs for the Master of Arts degree with a major in educational administration and supervision will be determined by the major adviser upon request.
Admission to the Program

1. Applicants must furnish all credentials requested in the standard application for admission to the Graduate College.
2. Applicants must hold a Master's degree from a regionally accredited institution. All graduate work taken by the applicant prior to admission to the program must have a grade point average of 3.25.
3. Applicants must hold full certification in educational administration and show evidence of having completed at least one year of successful practice as an educational administrator.
4. Scores of the Graduate Record Examination—verbal, quantitative, and advanced (Education) must total at least 1200.
5. A recommendation for study for the Ed.S. degree must be made by the adviser. This recommendation must be made prior to a second registration. Usually, it will precede the initial registration.

Residency Requirement

Candidates are required to pursue a portion of their work in residence. It may be fulfilled in one of the following ways:
1. As a full-time student (12-hour load) during one semester of the academic year.
2. As a full-time student (12-hour load) during two consecutive summer terms of the same summer session.

Program Design

The program has been designed to include the flexibility needed by at least two groups of students: (1) those preparing to become school principals; (2) those preparing to become school superintendents. The capstones of this Ed.S. program are the administration seminars (Ed.AD 800V and 801U) and the field project (Ed.AD 811U).

I. Core Professional Courses

Including work in school finance, school business management, supervision, school law, administration seminars, and field work. 42-48 hours

II. Related Professional Courses

Including selected work in such areas as curriculum, guidance, reading, foundations, and special education. 12-13 hours

III. Related Cognate Courses

Including selected work in such areas as economics, English, psychology, business administration, sociology, geography, history, speech, mathematics. 9-15 hours

Procedures in the Program

Upon inquiry about the program in the Graduate Office, students are assigned an adviser by the Chairman of the Department. This adviser will conduct a screening interview, the results of which become a part of the student's permanent record. In questionable cases, the adviser may ask for the assistance of a committee.

Assuming a satisfactory interview, the student will be notified of acceptance, and his committee appointed by the Graduate Dean. The committee will then consider the student's planned program and preliminary coursework, at which time the student should apply for degree candidacy. Upon acceptance into candidacy, the tentative program shall become the permanent planned program.
After notification of acceptance to candidacy, the Ed. S. student should commence background work on his field project. The outline should be presented to his committee; the members will evaluate, then accept, modify, or reject the project. A final committee-approved outline shall then be filed in the student's cumulative record. At least one committee meeting will be devoted to the field project, while it is in progress. At that time, committee members will have an opportunity to pose questions and make suggestions. The oral final examination for the student shall center on the field topic. The examining group shall be the committee and the Graduate Dean or his representative.

Course Descriptions

**800V Special Studies in Educational Administration and Supervision (I, II, S)** 3 hours
A series of intensive courses especially designed for educational administrators and supervisors—scheduled as regular seminars or workshops, according to purpose.

**810V Research Project in Educational Administration (I, II, S)** 1-3 hours
Individual or group study and analysis of specific problems in educational administration and supervision.

**825V Data Processing in Educational Administration** 3 hours
A study of the role of electronic data processing and systems procedures in educational administration.

**830V Seminar in Educational Administration** 3 hours
A study of educational problems and their relationship to and implications for educational administration. (Course should be taken in last nine hours of the Master of Science degree.)

**835V Foundations of Educational Administration and Supervision** 3 hours
A study of the nature and functioning of effective school organization and administration, including the interrelationships between the federal, state, and local responsibilities.

**840V Practicum in Educational Administration and Supervision** 3 hours
PREREQ: Fed 801V and approval. Designed to provide guided study and practice in elementary, secondary, and general administration and supervision as the interests and needs of the student require.

**841V Advanced Practicum in Educational Administration and Supervision** 3 hours
PREREQ: EDAD 840V Continuation of Education 880V. Advanced study and practice under guidance in elementary, secondary, or general administration and supervision as the needs of the student require.

**846V Administration and Supervision in Elementary Schools** 3 hours
PREREQ: Fed 801V The nature, principles, and functions of modern administrative and supervisory practices as they relate to the elementary school.

**847V Administration and Supervision in Secondary Schools** 3 hours
PREREQ: Fed 801V and EDAD 835V The nature, principles, and functions of modern administrative and supervisory practices as they relate to the secondary school.

**848V Administration and Supervision in Junior High School** 3 hours
PREREQ: Fed 801V and EDAD 835V This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.

**855V School Business Management** 3 hours
PREREQ: Fed 801V and EDAD 835V An analysis of the functions of business management; budgetary procedures; financial accounting, auditing and budgeting; management of funds, purchasing procedures and inventory; administration of properties; and administration of transportation.

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**856V School Finance** 3 hours
PREREQ: Fed 801V and EDAD 835V A study of the sources of school financing: local, state, and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance.

**860V School Plant Planning and Operation** 3 hours
PREREQ: Fed 801V and EDAD 835V Includes steps in planning the modern school building: site selection, building construction and design, school furniture and equipment, maintenance and operation; rehabilitation; scheduling of work; and custodial care.

**861V Organization and Administration of the Physical Plant** 3 hours
PREREQ: EDAD 860V Designed to give the school administrator competence in organizing the maintenance and operation program of the school plant; includes long-range maintenance, rehabilitation and remodeling, financing, scheduling of work and custodial care.

**870V Administration and Staff Personnel** 3 hours
PREREQ: Fed 801V and EDAD 835V This course deals with personnel policies, problems, and issues in the following areas: teacher recruitment, orientation, evaluation, promotion, tenure, retirement, professional organizations and legal status. Emphasis will be placed upon the techniques of democratic administration.

**871V Interpersonal Relationships in Educational Administration** 3 hours
This course is designed specifically with interpersonal and group relations. It should be useful to those administrators who recognize the need to increase their knowledge and skills in human relations.

**873V Administration and Supervision of Vocational Education** 3 hours
PREREQ: Fed 801V and EDAD 835V Basic concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor.

**874V Urban School Administration** 3 hours
This course is designed to acquaint students of educational administration with urban problems and issues which most significantly affect the administration of city schools.

**890V Administration of Higher Education** 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.

**880V Seminar in Educational Administration** 3 hours
PREREQ: Admission to Education Specialist Program Participation in the Seminar is limited to individuals who have a Master's degree with a major in school administration and will include current educational problems and procedures.

**891U Advanced Seminar in Educational Administration** 3 hours
PREREQ: Admission to Education Specialist Program Participation in the Seminar is limited to individuals who have been admitted to candidacy for the Specialist in Education degree with a major in school administration. Emphasis will be placed upon the theory and techniques of administration.

**891U Field Project in Educational Administration** 3 hours
PREREQ: Admission to Education Specialist Program and Approval, Department Chairman The study of a problem in the area of school administration, and employs the techniques of research.

**984 School Law** 3 hours
PREREQ: Fed 801V and EDAD 835V Considers legal principles and practices which are applicable to public education for public school teachers and administrators. (O'Reilly)
EDUCATIONAL EXPERIMENTATION AND DEVELOPMENT

Graduate Faculty Members:
Professors James W. Selee, Floyd Waterman (Chairman);
Assistant Professor Walter M. Calinger

The Master of Science degree with a major in urban education is for previously certified teachers at either the elementary or secondary levels.

Major in Urban Education

The Master of Science degree with a major in Urban Education is designed for teachers (secondary and elementary) who are already certified and who have an interest in working with low-income area students. Candidates must hold either a B.S. or B.A. degree and a valid teaching certificate. He must be personally interviewed by a faculty member associated with Urban Education.

The program is designed to help students identify key agencies in the community and to identify the relevant social economic, and teaching problems of low-income area students.

Required Courses
- FED 801V, Introduction to Research
- FED 803V, Education and Society
- FED 806V, The Urban School

Recommended Professional Courses
- COUN 800M, Principles of Guidance
- COUN 822M, Guidance in the Elementary School
- COUN 823V, Occupational Guidance
- COUN 825V, Individual Analysis
- FED 814M, Mental Health in the School
- FED 818M, Meeting the Needs of the Disadvantaged Child
- FED 819V, Growth & Learning Problems of the Disadvantaged
- FED 832V, Special Problems in Urban Education
- FED 836V, Seminar in Education
- SPED 891M, Problems in Teaching Reading, Elementary
- SPED 892M, Problems in Teaching Reading, Secondary
- SPED 898M, Reading Diagnosis
- SPED 899V, Teaching the Exceptional Child
- SPED 898V, Problems of the Disadvantaged

Selected Supporting Courses
- Psychology 831M, Psychological and Educational Testing
- Psychology 832M, Individual Differences
- Psychology 833M, Retardation
- Psychology 835M, Theories of Developmental Psychology
- Psychology 837V, Seminar in Communication Theory
- Psychology 838V, Behavior Modification
- Geography 812M, Urban Geography
- Geography 831V, Cultural Geography
- Geography 832V, Land Use
- Geography 837V, Population Seminar
- Geography 838V, Urban Seminar
- Economics 800V, Economics for Teachers I
- Economics 801V, Economics for Teachers II
- Economics 811M, Government and Labor
- Sociology 802M, Collective Behavior
- Sociology 813M, Advanced General Sociology
- Sociology 814M, Urban Sociology
- Sociology 815M, The Community
- Sociology 816M, American Family Problems
- Sociology 817M, Seminar
- Sociology 818V, Social Prob., esp. of Disadvantaged
- Pol. Sci. 840M, Public Budgeting
- Pol. Sci. 841M, Municipal Administration

Course Descriptions

800V Special Studies in Desegregation

Course Description
An Institute to deal with educational problems occasioned by desegregation and the need for multi-cultural education.

ENGLISH (ENG)

Graduate Faculty Members:
Professors Bruce Baker (Chairman), Robert D. Harper, Richard L. Lane, Glen A. Newkirk, Ralph Wardle

Master of Arts

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 of Arts degrees in English are required to take English 801V (Introduction to Literary Research) and to complete one of the following plans of study:

Plan A: Successful completion of 24 credit hours in course work, including at least 12 hours in 800V- or 900-level courses; plus a thesis (6 credit hours) on an approved topic accepted after oral defense before a faculty committee; plus a written examination prepared and judged by a faculty committee.

Plan B: Successful completion of 36 credit hours in course work, including at least 18 hours in 800V- or 900-level courses; plus a written examination prepared and judged by a faculty committee.

The following English seminars in major periods vary in emphasis and may be repeated for an additional three hours of credit: English 806V, 809V, 810V, 820V, 825V, 912, 915.
Course Descriptions

**FOREIGN LANGUAGES**

**Graduate Faculty Members:**
Professor Woodrow L. Most (Chairman); 
Associate Professor Gaylord Todd; 
Assistant Professors Kenneth Eller, Norman J. Luna

Graduate courses in the Department of Foreign Languages are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.

**French (FREN)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>PREREQ</th>
<th>Credits</th>
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<tbody>
<tr>
<td>801L</td>
<td>Eighteenth Century French Literature</td>
<td>FREN</td>
<td>3 hours</td>
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<tr>
<td>851L-852L</td>
<td>Nineteenth Century French Literature</td>
<td>FREN</td>
<td>3 hours</td>
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<tr>
<td>851M</td>
<td>Contemporary French and German Novels</td>
<td>FREN</td>
<td>3 hours</td>
</tr>
<tr>
<td>851M</td>
<td>Nineteenth Century French Literature</td>
<td>FREN</td>
<td>3 hours</td>
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<tr>
<td>852M</td>
<td>Twentieth Century French Literature</td>
<td>FREN</td>
<td>3 hours</td>
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<tr>
<td>853M</td>
<td>Seventeenth Century French Literature</td>
<td>FREN</td>
<td>3 hours</td>
</tr>
<tr>
<td>854M</td>
<td>Student Seminar in French Literature</td>
<td>FREN</td>
<td>3 hours</td>
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</tbody>
</table>

**PREREQ:**
- French 212: Study of the Enlightenment, emphasizing the works of Voltaire, Rousseau and Diderot.
- French 211 for either 851L or 852L
- French 170 to 1885, Realism Naturalism Parnassian, Symbolism.
- French 1930, Twentieth Century French Literature
- Guided independent study and research under tutorial supervision.
- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
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- French 813M, 814M, French 213 for either 851L or 852L
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- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
- French 813M, 814M, French 213 for either 851L or 852L
German (GERM)

800M Independent Study
PREREQ: Permission of the instructor
Guided independent study and research under tutorial supervision.

815M Contemporary French and German Novel
PREREQ: Permission
Comparative study of selected contemporary French and German novels. Cross-listed as French 815M and English 815M.

831M German Literature of the 19th Century
PREREQ: German 303
The dramatic, epic and lyric works of nineteenth century German literature.

832M German Literature of the 20th Century
PREREQ: German 303
The principal dramatic, epic and lyric works of the twentieth century German literature.

856L Modern Novel of Spain
PREREQ: Span. 302 or permission
Study of representative novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors.

856M Spanish American Novel
PREREQ: Span. 302 or permission
Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors.

GEOGRAPHY AND GEOLOGY (GEOG-GEOL)

Graduate Faculty Members:

Professors Harold J. Retallick, Gordon B. Schilz (Chairman), Philip E. Vogel;
Associate Professor Nicholas Bariss;
Assistant Professor John F. Shrader, Jr.

The department offers the following degrees with a major in geography: the Master of Arts degree and the Master of Science degree.

The Master of Arts with a major in geography is intended for those preparing themselves for areas in other than physical geography, whereas the Master of Science with a major in geography is intended for students electing to do major work in physical geography. Each degree has two options. Option I should be chosen by those preparing for careers in research and scholarly work or in college or university teaching. The option requires a minimum of 24 semester hours in geography courses numbered 800M-800V and 900, and thesis 6 hours. Permission is required for a student to take more than two 800M level courses to apply towards the degree. Option II may be chosen upon the advice and with the approval of the major adviser. This option requires a minimum of 36 semester hours in geography courses numbered 800M or 800V-900, or selected cognate courses in other departments. No thesis is required for this option. Permission is required for a student to take more than two 800M level courses to apply towards the degree. Students who have taken the degree under Option II and later elected to continue in graduate work for the Ph.D., will not be encouraged by the department to continue unless evidence of ability to carry on independent research is presented.
## Course Descriptions

### 801M Conservation of Natural Resources
- **PREREQ:** 3 hours of Geog.; Senior or Graduate level (3 hours)
- A study of physical, cultural, and human resources of nations with emphasis on the United States. Includes the history of conservation in the U.S., the philosophy behind the movement, current conservational practices and problems, and the direction in which resource use and conservation are moving.

### 812M Urban Geography (Same as Econ. 812M and Soc. 812M)
- **PREREQ:** 6 hours of Geog.
- A geography of the city from the viewpoint of history, site and situation, external relations, internal relations, and the comparative study of cities.

### 823M Great Plains and Nebraska
- **PREREQ:** 6 hours of Geog.
- This is a regional geography course intended for geography majors and Arts and Sciences students who may have an interest in this particular area. It is desirable to have had previous study with regional geography.

### 832M Climates of the World
- **PREREQ:** Geog. 106 (or a meteorology course) (3 hours)
- The atmospheric component of man's physical environment is systematically investigated throughout the world. Based upon large numbers of climate stations, the climate controls and elements of the continents are studied by seeking the "what" and "why" about the climates of the continental subregions. The modified Koppen classification system is applied.

### 840M Geography of Manufacturing (Same as Econ. 840M)
- **PREREQ:** Geog. 313 or Econ. 201 and 202 (3 hours)
- A course which discusses methods of measurement and classification, as well as the function of manufacturing: major world manufacturing regions and industry analysis; location criteria and theory in the U.S.; and local community patterns.

### 850M Historical Geography of the United States
- **PREREQ:** Hist. 111 and 112 (3 hours)
- A course dealing with the geography of the past. Emphasis is placed on the sequential occupation of regions in the United States or the geography of major divisions of the United States at selected times in the past.

### 865M Independent Regional Research
- **PREREQ:** Permission of Department Chairman.
- Advanced study in the form of a major paper to give the senior or graduate student an organized body of knowledge and experience in using government documents, professional and primary materials, concerned with a region. Must be under the supervision of the instructor who is particularly qualified for the region chosen. Paper will be presented to the graduate general seminar or the local chapter of the Phi Kappa Gamma Fraternity.

### 890M Urbanization in Developing Areas
- **PREREQ:** 6 hours of Geog. and Urban Geog. 812M (3 hours)
- The functions and morphology of various types of cities found in presently developing areas of the world. Emphasis will be upon contrasting the cities of the developed and developing areas.

### 891V Geography Concepts: History and Philosophy
- **PREREQ:** Permission (3 hours)
- Introduction to History of Geography. Emphasis on significant ideas, concepts, methodologies, and philosophies in geography from the classical Greeks to present.

### 892V Geography Concepts: Quantitative Methods
- **PREREQ:** Permission (3 hours)
- Understanding and appreciation of quantitative techniques in geography. Emphasis is placed on sampling theory and design, graph theory and spatial statistics.
871V Population Seminar ........................................ 3 hours
PREREQ: Permission
The significance of differences from place to place in the number, kind, and qualities of human inhabitants and changes through time.

889V Independent Study in Topics on Urbanism ** .................................. 1 hour per semester to 3
PREREQ: Undergraduate major in one of the social sciences; plus six hours of graduate work in one of the Social Sciences. Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.
***(Also listed under Economics, Political Science, and Sociology.)

881V Urban Seminar in Metropolitan Planning and Development .... 3 hours
(Same as Pol. Sci. 881V)
PREREQ: Geog. 812M or recommendation from Political Science, Sociology, or Economics Department
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.

909V Interdisciplinary Seminar on the Urban Community** ...... 2 to 6 hours
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.
An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.
***(Also listed under Economics, Political Science, and Sociology.)

908V Seminar in Urban Economics ........................................ 3 hours
PREREQ: At least 6 hours of upper division course work in economics, or permission
An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives available toward their possible solution. Separate credit may be received for each course.

907V Seminar in Regional Economics .................. 3 hours (Same as Econ. 987V-988V)
PREREQ: At least 6 hours of upper division course work in economics, or permission of instructor
An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and analyzing economic problems of a regional nature. In addition, policy alternatives, decision making, and measurement techniques are examined.

909V Urban Regional Research .................................. 1 to 6 hours
PREREQ: Graduate enrollment in the Master of Science in Economics program and acceptance by a graduate adviser
Used in candidates for the Master of Science Degree in economics in lieu of a Master's thesis. A study consisting of urban economic problems, employing research techniques. Students do independent research, consulting with an adviser, and submitting completed report to a departmental committee.

909 Thesis .... 3 to 6 hours
Independent research project written under the supervision of an adviser.

941 Seminar in Problems of Political Geography ........... 3 hours
PREREQ: Permission, and Geog. 303
Case studies in land boundaries, territorial waters, and in population aspects of boundary problems. A review of important studies in Political Geography.
Professor Gordon B. Schilz

975 Seminar in Regional Geography .................. (3-6 credits, maximum 3 per semester, except foreign country field work.)
Professor Gordon B. Schilz

991- General Seminar ........... Each 1 hour
Review of current research by geographers including national and international associations and initial thesis proposal.
Professor Gordon B. Schilz

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UNIVERSITY OF NEBRASKA AT OMAHA

HISTORY (HIST)

Graduate Faculty Members:
Professors Frederick W. Adrian, Paul L. Beck, Jo Ann Carrigan, Ert J. Gun, Roy M. Robbins (Emeritus), A. Stanley Trickett.
Associate Professors Harl A. Dalstrom (Chairman), Richard A. Overtin, William Petrovich.
Assistant Professors Dale Gaeddert, William C. Pratt, Jacqueline D. St. John.

Master of Arts

Admission to M.A. Program

1. To be admitted unconditionally a student must present 21 (twenty-one) hours of undergraduate preparation in History with at least a 3.00 average in those hours; further, to be admitted unconditionally, the student must have achieved a grade average of 2.75 in his overall undergraduate work and must follow all other admission requirements of the Graduate College.

2. Students may be admitted provisionally who have less than 21 (twenty-one) hours of undergraduate preparation, or who have not achieved a 2.75 overall grade average. They shall be removed from provisional status when they become eligible for and have achieved candidacy.

The program for the Master of Arts degree with a major in History will usually be arranged to conform to one of the following general patterns:

I. 24 semester hours of selected and approved graduate course work in History, in which 15 semester hours will be in either (a) American History or (b) non-American History. The remaining nine selected and approved hours will be in graduate course work in History in the other of the two broad areas indicated.

II. A major of 15 semester hours of selected and approved graduate course work in History, plus an additional nine semester hours in approved graduate course work in a related field of study.

In either program of study a thesis, not to exceed six semester hour in independent study, is required under the direction of the major adviser.

Course Descriptions

811L American Economic History to 1665 .................. 3 hours
PREREQ: Graduate standing
A survey of American economic development from colonial times to the end of the Civil War.

812L American Economic History Since 1865 .................. 3 hours
PREREQ: Graduate standing
A survey of American economic development from the Civil War to the present.

813L American Colonial History .................. 3 hours
PREREQ: Graduate standing
A study of the background, settlement, and development of the English colonies.

815L The American Frontiers: 1600-1840 .................. 3 hours
PREREQ: Graduate standing
A study of the frontier systems of the Thirteen Colonies and of Spain and France, and the Westward Movement of the United States to the Mississippi River.

815L The American Frontier: 1840-1900 .................. 3 hours
PREREQ: Hist. 815L or permission of instructor
The Trans-Mississippi West from Spanish and French days to the disappearance of the frontier around 1900.
834L Diplomatic History of the United States to 1600
PREREQ: Graduate standing
A study of the foreign relations of the United States before 1600.

834L Diplomatic History of the United States Since 1600
PREREQ: Graduate standing
A study of the foreign relations of the United States since 1600.

841L History of Nebraska
PREREQ: Graduate standing
From the earliest known records to the present.

844L History of the South
PREREQ: Graduate standing
Economic, social, and political development of the South as a region.

851L Economic History of Europe to 1760
PREREQ: Graduate standing
A survey of European economic development to 1760.

852L Economic History of Europe Since 1760
PREREQ: Graduate standing
A survey of European economic development from 1760 to the present.

853L Medieval Europe, 284-1515
PREREQ: Graduate standing
Establishment and development of the medieval church and of feudal society from the declining years of the Roman Empire to the beginning of the Crusades.

854L Medieval Europe, 1050-1482
PREREQ: Graduate standing
Religious, social, economic, philosophic and institutional developments of the era extending from the Crusades and the investiture struggle through "the waning of the middle ages."

855L The Age of the Renaissance
PREREQ: Graduate standing
An introduction to the economic, social, political, religious, and intellectual changes to the principal thinkers, writers, and artists of the period extending roughly from 1500-1550.

864L History of the British Empire and Commonwealth
PREREQ: Graduate standing
Britain in America, Africa, India and the Pacific. The development of a dependent empire and the transformation of many dependencies to the status of independent members of the Commonwealth of Nations.

891M History of Science to 1700
PREREQ: Graduate standing
A survey of the development of scientific ideas and techniques from antiquity to the beginning of modern science.

892M History of Science Since 1700
PREREQ: Graduate standing
A survey of the historical and intellectual development of modern science and its relation to technology, society, and social thought.

911M American Social and Intellectual History to 1865
PREREQ: Graduate standing
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.

914M Early Federal Period, 1789-1815
PREREQ: Graduate standing
A study of the growth and development of the American nation during the formative years under the Constitution.

816M The Jacksonian Era
PREREQ: Graduate standing
An interpretive study of the middle period of American history.

817M Civil War and Reconstruction
PREREQ: Graduate standing
The background of the conflict, the years of the war and the problems of reshaping the Union in the years that followed.

824M The Emergence of Modern America: 1867-1901
PREREQ: Graduate standing
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.

827M Twentieth Century America to 1932
PREREQ: Graduate standing
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.

828M Twentieth Century America, 1933 to Present
PREREQ: Graduate standing
A study of the history of the United States from the election of Franklin D. Roosevelt to the Presidency at the present.

829M Ideas in Twentieth Century America
PREREQ: Graduate standing
An analysis of some of the important ideas which have had influence in recent America.

832M American Constitutional History to 1860
PREREQ: Graduate standing
A history of constitutional theory and practice in the continental North American colonies and in the United States prior to 1860.

834M American Constitutional History Since 1860
PREREQ: Graduate standing
A history of constitutional theory of practice in the United States from 1860 to the present.

842M History of American Science
PREREQ: Graduate standing
A study of the origins, development, and nature of American science and its relations with technology, social thought, and government.

843M American Urban History to 1960
PREREQ: Graduate standing
Historical survey of urban development in the United States from the colonial period through the 1900's; urban society, problems, institutions; role of cities in national history; American ambivalence toward cities.

844M American Urban History Since 1970
PREREQ: Graduate standing
American urbanization from 1970's to the present; influence of technology, transportation, industry, immigration; urban politics and reform movements; emergence of metropolitan America and problems of the contemporary super-city.

847M History of American Medicine and Public Health
PREREQ: Graduate standing
Analysis of the relationship and interaction of medical thought and practice, public health problems and institutional development, and the changes in American society and culture from the 17th to the 20th century.

851M Intellectual History of Modern Europe: Seventeenth and Eighteenth Centuries
PREREQ: Graduate standing
Intellectual History of Modern Europe from the beginning of the seventeenth century to the French Revolution.

852M Intellectual History of Modern Europe: The Revolutionary Age to the Present
PREREQ: Graduate standing
Intellectual History of Modern Europe from the French Revolution to the present.
A study of European society during the critical years following the
Renaissance.

The Age of Absolutism
PREREQ: Graduate standing
The emergence of new power relationships on the European Continent
after the religious wars of the sixteenth century with an emphasis
upon the military and cultural factors that led to the French
hegemony and the secularization of European politics.

The French Revolution and Napoleonic Era: 1789-1815
PREREQ: Graduate standing
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
Emperor.

Nineteenth Century Europe, 1815-1870
PREREQ: Graduate standing
An advanced study of what has happened in Europe since 1815 with
a view to exposing the consequences of such events.

Nineteenth Century Europe 1848-1900
PREREQ: Graduate standing
An advanced interpretive analysis of the political and cultural develop­
ment of Europe from the Revolutions of 1848 to 1899.

Tudor and Stuart England
PREREQ: Graduate standing
A study of England under the Tudors, when the English people rose
magnificently and experienced a Golden Age, and the Stuarts then cast
off the last remnants of medieval things and formed new institutions
foreshadowing those of our world of today.

England in the Eighteenth and Nineteenth Centuries
PREREQ: Graduate standing
A study of the change and development in Great Britain from 1714 to
1834.

English Constitutional History to 1485
PREREQ: Graduate standing
The development of the legal and governmental institutions of the
English-speaking people to 1485, including England's central and local
governments.

English Constitutional History Since 1485
PREREQ: Graduate standing
The development of the legal and governmental institutions of the
English-speaking people since 1485, including British central and local
government and the governments of the member states of the Commo­
wealth and the more important colonies.

Nineteenth-Century Intellectual History of Russia
PREREQ: Graduate standing
A study emphasizing the nineteenth-century revolutionary tradi­tion,
prototypes, ideology and impact upon Russian society.

Europe in Crisis: 1890-1932
PREREQ: Graduate 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.

Europe in the Global Age: 1933 to the Present
PREREQ: Graduate standing
A study of the ever increasing tensions between the fascist and com­
munist dictatorships and the Western democracies, World War II, the
inexplicable dislocation of power and the emergence of the "Balance of
Terror."
as an undergraduate. All courses must carry a number of 800M or above and at least 18 hours must carry a number of 800V or above. Mathematics courses 923, 924, and 862V are required in the program.

**Master of Science**

The course requirements may be met by completing thirty-six semester hours of work, at least twenty-four of which must be in mathematics. At least eighteen semester hours of work in mathematics must be in courses numbered 800V or above. Courses in mathematics 811M, 812M, 823M, 824M, and 827M must be completed if not taken prior to entering graduate school. Math 923-924 and Math 862V are required. The student must pass a final written comprehensive examination.

**Course Descriptions**

The 800L courses listed are open for graduate credit to students who do not seek an advanced degree in mathematics.

**Computer Sciences**

831L Numerical Methods (II) 3 hours
PREREQ: Math 196, 211 and Computer Language
Solution of equations, polynomial approximation, difference calculus, interpolation, quadrature, initial value problems from ordinary differential equations and matrix inversion.

831L Data Structures (II) 3 hours
PREREQ: Math 191, 211 and CS 230
List processing languages, theories of file organization, theories of system design, information retrieval, applications.

833M Introduction to System Programming (II) 3 hours
PREREQ: CS 322 or equivalent
An introduction to linear programming and applications.

Mathematics

811L Differential Equations (I, II) 3 hours
PREREQ: One year of calculus
Methods of solving ordinary differential equations with applications to geometry and physics. The linear equations are emphasized.

853L Probability and Statistics I (I, II) Each 3 hours
PREREQ: Math 197
Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation and limit theorems, point estimation, the multivariate normal distribution, testing of statistical hypotheses, confidence intervals.

860L Introduction to Topology (II) 3 hours
PREREQ: Math 165
Theory of sets, topological spaces, metric spaces, topological properties.

864L Projective Geometry (I) 2 hours
PREREQ: Math 165 or equivalent
Duality, perspectivity, harmonic sets, double ratio, conics and projective coordinates dependence and independence of sets of points and sets of lines, matrices and determinants, pole and polar, polar reciprocation in respect to a conic, classical theorems.
PHYSICS (PHYS)

Graduate Faculty Members:
Professor John G. McMillan (chairman)
Associate Professor Raymond A. Guenther;
Assistant Professor John W. Flocken

Graduate physics courses are offered to fulfill requirements for a major field or as cognate or selected courses on a plan of study.

Course Descriptions

501L Elements of Electronics  (I or II) 3 hours
PREREQ: Math thru Trig. and Physics 112 or 212
The background of theory, operation, and practice of electronic devices and circuits particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved.

Electronics Laboratory  (I or II) 1 hour
PREREQ: Math 196 and Physics 112 or 212
The nature of light energy as disclosed through studies of geometrical optics, physical optics and quantum optics.

502L Optics  (I or II) 3 hours
PREREQ: Math 196 and Physics 112 or 212
The nature of light energy as disclosed through studies of geometrical optics, physical optics and quantum optics.

Optics Laboratory  (I or II) 1 hour

507L Electricity and Magnetism I  (I) 3 hours
PREREQ: Calculus, Physics 235, or permission
An advanced discussion of electrostatics and magnetostatics as well as A.C. theory.
Laboratory for Electricity and Magnetism I  (I) 1 hour

507L Electricity and Magnetism II  (I) 3 hours
PREREQ: Physics 375
A course in electrodynamics. Topics include Maxwell's Equations and methods for their solution, boundary conditions, as well as energy, momentum, and transformations of the fields.
Laboratory for Electricity and Magnetism II  (I) 1 hour

565L Heat and Thermodynamics  (I or II) 3 hours
PREREQ: Calculus and Physics 112 or 212

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895M Solid State  (I or II) 3 hours
PREREQ: Calculus and Physics 235 or permission
Behavior of materials in the solid state as concerns Energy Levels, Wave Mechanics, Optical and Electrical Phenomena.

892M Modern Physics  (I or II) 3 hours
PREREQ: Calculus and Physics 112 and 212
Recent developments concerning the nature of matter, radiation, and space including relativistic effects and the dualistic behavior of particles and waves.

854M Nuclear Physics  (I or II) 3 hours
PREREQ: Calculus and General Physics 112 or 212
Methodology and principles of nuclear science, nuclear structure, artificial and natural radioactivity, isotopes, tracer, techniques, radiation health physics, reactor theory.

855M Principles of Geology  (I or II) 3 hours
PREREQ: General Physics and/or General Chemistry
This course is designed primarily for Junior and Senior High School teachers of science, but would also benefit any elementary teacher qualified to take the course. Course content includes sections on minerals, rocks, volcanism, diastrophism, gravitational agents, historical geology; geophysics and structural geology.

855M Descriptive Astronomy  (I or II) 3 hours
PREREQ: General Physics and/or General Chemistry
Astronomy course designed primarily for Junior and Senior High School teachers of science or for science majors desiring to broaden their background. Includes historical highlights, Newtonian mechanics, solar system, meteors, physics or stargazing, star, star systems, and stellar evolution.

855M Quantum Mechanics  (I or II) 3 hours
PREREQ: Calculus, Physics 235 or permission
Basic quantum phenomena such as black body radiation, photoelectric effect, Compton scattering, and barrier penetration. Course includes the uncertainty principle, and solutions of various problems such as the potential box, potential step, and the harmonic oscillation by use of the Schroedinger equation. Applications will be considered for the hydrogen atom and to simple molecules and crystals.

892M Modern Developments in Physics  (I or II) Each 3 hours

892M PREREQ: General Physics 112 or 212
A resume of the more important discoveries, changes and new concepts gleaned from the last decade of research in physics. Superconductivity, lasers, masers, superfluidity, ultra large magnetic fields, space plasma, nuclear fusion, power, etc. Designed for updating physical science concepts for science majors and for science teachers.

895M Problems in Physics  (I, II, S) Each 1-3 hours

895M PREREQ: General Physics and permission of instructor
Individual laboratory and/or library work in some field of energy.

POLITICAL SCIENCE (POL. SCI.)

Graduate Faculty Members:
Professors W. C. B. Lambert, Harry W. Reynolds, David C. Scott (Chairman), William T. Utley;
Associate Professors H. Carl Camp, Orville D. Menard;
Assistant Professors John T. Farr, Bernard D. Kolasa.

An applicant for admission to the Master of Arts or Master of Science degree program with a major in Political Science must present a prerequisite a minimum of fifteen undergraduate semester hours of Political Science or their equivalent as determined by the department admission committee.
Degree Requirements: The course program must include twelve hours of the required thirty hours at the 800V level exclusive of thesis hours. The remaining course hours are elective but must be planned in conference with the student's academic adviser to meet individual interests and needs.

Master of Science

Degree Requirements: For the Master of Science with a major in Political Science, eighteen hours of the required thirty-six hours must be at the 800V level. The remaining hours are elective, but must be planned in conference with the student's academic adviser to meet individual interests and needs.

MASTER OF PUBLIC ADMINISTRATION

This is a professional graduate degree offered in the Department of Political Science which is designed: (1) to prepare students for careers in the public service—national, state, or local; (2) for research or teaching in this field; (3) for those already in the public service who are seeking professional training.

Administrators are required for a wide variety of governmental programs and students in the M.P.A. program will likely come from widely differing backgrounds. Some may come from current public employment while others may enter with degrees in the social sciences, engineering, business administration, or the humanities.

The basic prerequisite for admission to the M.P.A. program is a Bachelor of Arts or Bachelor of Science degree or equivalent.

For a student to be admitted unconditionally to the M.P.A. program he must have completed as prerequisites three semester credits in each of the following: Introduction to Public Administration, Urban Government, accounting, and statistics. In addition, if the student's undergraduate preparation in social sciences is insufficient, additional preliminary work may be prescribed which he must complete before he is accorded unconditional admission. These additional courses do not carry graduate credit, but other courses for graduate credit may be taken simultaneously.

Degree Requirements

Thirty semester hours of course work are required, plus six hours of internship in a public agency for 8 to 12 months. The internship may be waived and up to six hours credit granted for service in civilian public or semi-public agencies. Requests to waive the internship shall be submitted to a departmental committee for approval. In lieu of the internship in such cases the committee may require additional course work or a thesis.

A core of eight required courses shall be completed plus six credit hours from a specified list of optional courses. The required courses include, but are not necessarily restricted to, Political Science 800V; Public Administration 840M, 841M, 846V, 847V, 848V, 849M, 840V, and Economics 856M. The optional courses may be selected from Political Science 833V, 884V; Public Administration 843M, 845M, 848V, 881V; Economics 880M, 816V, 822V, 885V, 886V; and Geography 812M, 890M, 865V. It is possible in exceptional circumstances for up to six credit hours of optional courses to be substituted for certain required courses. Such substitutions require approval of a student's adviser.

Eighteen hours of the course work must be at the 800V level.

A comprehensive final examination both written and oral is required.

Course Descriptions

Political Science

800M The Presidency 3 hours
The rise of the institution from Washington to the present, to the position and prestige it holds and how the President uses this power and prestige to influence Congress, the courts, and the public.

804M The Legislative Process 3 hours
A comprehensive study of the legislative process of the Congress and state legislatures. The major emphasis is on legislative institutions, processes and behavior.

805M The Judicial Process 3 hours
This is a course in the administration of justice. It examines the Federal and State courts with respect to their powers, judicial selection, and bar, and the reform movements in the most basic of all of man's activities, "The pursuit of justice."

810M Comparative State Politics 3 hours
A comparative analysis of the structure and function of American state governments. Institutional aspects will be examined, but primary emphasis will be placed on the policy determination process and the significant variables which pattern this process.

811M Public Opinion and Political Behavior 3 hours
Analysis of the political socialization process as it relates to opinion formation and participation and the effects of this process on the operation of the political system.

814M Constitutional Law I 3 hours
The first semester of a two-semester course in American Constitutional Law. It seeks to familiarize the student with the background of the American Constitutional system, the nature of the Judicial process and the role of the United States Supreme Court in the development of the institutions and powers of the American Federal System.

815M Constitutional Law II 3 hours
The second semester of the American Constitutional Law course. It focuses on the role of the United States Supreme Court in defining the political and civil rights guaranteed in the United States Constitution.

820M International Politics of Asia 3 hours
Analysis of contemporary relations among the Asian nations as well as their interactions with the great powers; emphasis on the forces and issues which influence the international system of Asia.

821M Foreign Policy of the U.S.S.R. 3 hours
A study of the foreign policy of the U.S.S.R., with emphasis on developments since 1945, internal and external influences on Soviet foreign policy, the presence of foreign power making, and the role of the Communist party.

822M National Security Policy 3 hours
The processes and the machinery of formulating national security policy and the institutions involved. Special emphasis is given to demonstrating the interrelationships among political, military, technological, domestic and international factors.

825M International Law of Peace 3 hours
A basic course in the broad curriculum of international politics. It seeks to introduce the student to the continuing morality and law which is accepted by the international community and according to which it seeks to function in its relations as a foreign state. The aspects of the Law of War are excluded from this treatment.

826M Inter-American Politics 3 hours
A developmental study of the role of Latin American states in the international political arena. Emphasis on developing and testing an explanatory theory of international politics through the study of the Inter-American system, the regional institutional and ideological environment, power relations, policies, and contemporary problems.

821M Political Theory I 3 hours
Reviews and analyzes the leading political theories of Western Man from the Hebrews and Greeks to the middle 17th Century.
824M Political Theory II .......... 3 hours
Continues the review and analysis of the leading political theories of Western Civilization begun in Pol. Sci. 421, bringing the study down to the French Revolution.

825M Political Theory III ........ 3 hours
Continues the review and analysis of the leading political theories of Western Civilization begun in Political Science 421 and 422 (Political Theory I and II), bringing the study down to the present day.

826M Political Theory IV .......... 3 hours
An overview and analysis of the dominant political thoughts and ideas that have been present in American thinking from the days of the Puritans to today, and the individuals who held them.

827M Democracy .................. 3 hours
A basic study of theory, practice and practitioners of political democracy, its roots, development, present application and problems, and future.

828M Dictatorship .................. 3 hours
A basic study of theory, practice and practitioners of political dictatorship, its roots, development, major 20th century application and bellicosity, and threats to man.

829M Communism .................. 3 hours
The Marxist message, its use as an impulsion to political power, its world-wide extension, and the threat it poses for the world in the hands of the Soviet Union and others.

829M Government and Politics of Great Britain .......... 3 hours
A comprehensive study of British politics and government. Emphasis will be focused on the formal institutions and informal customs and practices of the British political system.

829M Government and Politics of France .......... 3 hours
The political heritage, attitudes, institutions, processes, and problems of modern France.

829M Government and Politics of Africa .......... 3 hours
A comparative analysis of the structures and functions of government in Africa, primarily Sub-Saharan Africa, with special attention given to the political environment.

829M Government and Politics of the U.S.S.R. .......... 3 hours
A critical study of the processes and policies of government in the U.S.S.R. with special attention given to the role of the Communist Party in Soviet politics and the ideological and social factors which influence policy formation.

900V Seminar in Political Research Methods .......... 3 hours
PREREQ: Permission of graduate adviser
A critical study of the methods of data collection and analysis for political science research.

904V Seminar in American Government and Politics .......... 3 hours
PREREQ: Permission of graduate adviser
A thorough analysis of the structure and function of the American political system with emphasis on individual research by the student.

915V Seminar in Public Law .......... 3 hours
PREREQ: Three semester hours in public law or permission of graduate adviser
A critical investigation of the methods of data collection and analysis for political science research.

920V Seminar in International Politics .......... 3 hours
PREREQ: Graduate standing with permission of instructor and department chairman
An examination of the theoretical frameworks advanced for the systematic study of International Relations, with application to particular problems in international relations.

929 Thesis ......................... 1-6 hours
PREREQ: Permission of graduate adviser
A research project, written under the supervision of a graduate adviser in the department of Political Science, in which the student establishes his capacity to design, conduct, analyze and write a scholarly investigation of a high order of originality. The research topic and the completed project must be approved by the student's departmental committee.

960M Public Budgeting .......... 3 hours
A study of the procedures and problems involved in making budgets for governmental institutions.

932M Seminar in Political Theory .......... 3 hours
PREREQ: Six hours of Political Theory or permission of graduate adviser
An analysis of selected topics in normative, empirical and ideological political theory and their impact upon practitioners of politics.

935V Seminar in Comparative Politics .......... 3 hours
PREREQ: Graduate standing with permission of the instructor and department chairman
An examination of the purpose, theories and literature of the field of comparative politics, with evaluation of the theories by application to contemporary political systems.

932V Seminar in Comparative Politics: Emerging Areas .......... 3 hours
PREREQ: Permission of graduate adviser
Research, analysis, and writing on topics of general and particular interest to specialists in the governments, politics, and political problems of emerging nations.

930V Independent Study in Topics on Urban Community .......... 1 hour per sem. to 3
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 Sociology.) Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.

932V-943V Interdisciplinary Seminar on the Urban Community .......... 3 hours per sem. to 6
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 Sociology.) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.

935V-966V Urban Economics .......... 3 hours
PREREQ: At least 6 hours of upper division work in economics or permission. (Also listed under Economics, Geography and Sociology.) An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution.

937V-967V Regional Economics .......... 3 hours
PREREQ: At least 6 hours of upper division course work in economics or permission of the instructor
An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and analyzing economic problems of a regional nature: In addition, policy alternatives, decision making, and measurement techniques are examined.

939V Readings in Political Science .......... 3 hours
PREREQ: Permission of graduate adviser
Specially planned readings in Political Science for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is advised by the Political Science Department to be capable of pursuing a highly independent course of study.

999 Thesis ......................... 1-6 hours
PREREQ: Permission of graduate adviser
A research project, written under the supervision of a graduate adviser in the department of Political Science, in which the student establishes his capacity to design, conduct, analyze and write a scholarly investigation of a high order of originality. The research topic and the completed project must be approved by the student's departmental committee.
841M Public Personnel Management 3 hours
A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance.

842M Municipal Administration 3 hours
The administrative structure and administrative practices of American cities covering such areas as finance, personnel, public works, public safety, health, utilities, and planning.

843M State Administration 3 hours
A study of the administrative organization and procedures of selected states in the Federal System. Application of the principles of public administration to the level of state governments is made on a comparative basis.

844V Seminar in Public Administration 3 hours
PREREQ: Permission of graduate adviser
An in-depth study of the relationships existing between the art and science of public administration, on the one hand, and the processes of government on the other. The emphasis is principally on broad categories of political and administrative issues as they condition each other.

844V Seminar in Human Relations and Management in Public Agencies 3 hours
PREREQ: Permission of graduate adviser
A study of the social and psychological aspects of management as they are pertinent to the operation of governmental agencies.

844V Seminar in Public Organization and Management 3 hours
PREREQ: Permission of graduate adviser
A study of the principal managerial problems encountered in larger public or governmental bureaucracies.

844V Seminar in Public Personnel Administration 3 hours
PREREQ: Permission of graduate adviser
This course focuses on the principle consideration affecting the selection and utilization of personnel by government agencies. The emphasis is less in terms of description of processes than in terms of identifying and exploring solutions to problems.

844V Seminar in Public Financial Administration 3 hours
PREREQ: Permission of graduate adviser
Financial organization, intergovernmental financial relations, and the administrative and political aspects of budgetary planning and control.

801V Urban Seminar in Metropolitan Planning and Development 3 hours
PREREQ: GeoG 412 or recommendation from Political Science, Sociology, or Economics Department. (Also listed under Geography.)
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.

803U-804U Internship 3 hours each semester
Maximum of 6 to be granted upon completion of written report on internship.
Internship in some government: national, state, or local.

PSYCHOLOGY (PSY)
Graduate Faculty Members:
Professors Robert Ellingson, Francis Hurst, John Newton (Chairman), D. T. Pedrin, James Williams;
Associate Professors Kenneth Deffenbacher, Norman Hamm, Shelton Hendricks, Clemm Kessler, Harry Saslow, Fred Strider, Richard Wikoff;
Assistant Professors Kenneth Berry, Evan Brown, Robert Innes, Richard Kohlan, Joseph LaVoie, C. Raymond Millimet

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing. Students who do not meet the above requirements may be provisionally admitted following the Graduate College's policy.

Master of Arts
To complete the M.A. degree with a major 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. The student must choose one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

I. A. Psychology 901 (Proseminar in Learning)
B. Psychology 922 (Proseminar in Sensation)
II. A. Psychology 921 (Proseminar in Perception)
B. Psychology 923 (Proseminar in Physiological Psychology)
III. A. Psychology 810 (Proseminar in Analysis of Variance)
B. Psychology 811 (Proseminar in Factor Analysis)
IV. A. Psychology 902 (Proseminar in Personality)
B. Psychology 903 (Proseminar in Social Psychology)

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, physiological, industrial, quantitative, personality, social, or child psychology. Final determination of a student's plan of study always resides with his adviser and the department. However, to meet the graduate college requirements, a student must take at least half of his work in courses which are open only to graduate students.

Master of Science
To complete the M.S. with a major in industrial psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate course work in psychology, or 24 hours in psychology plus 12 hours in a related minor field. The student must choose one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

I. A. Psychology 901 (Proseminar in Learning)
B. Psychology 922 (Proseminar in Sensation)
II. A. Psychology 921 (Proseminar in Perception)
B. Psychology 923 (Proseminar in Physiological Psychology)
III. A. Psychology 810 (Proseminar in Analysis of Variance)
B. Psychology 811 (Proseminar in Factor Analysis)
IV. A. Psychology 902 (Proseminar in Personality)
B. Psychology 903 (Proseminar in Social Psychology)

Additional required course work may be designated by the department. This will ordinarily include up to 3 hours of practicum credit. Final determination of a student's plan of study always resides with his adviser and the department. However, to meet the graduate college requirements a student must take at least half of his work in courses which are open only to graduate students.
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 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 professional work experience in the schools.

Filing of an acceptable plan of study with the graduate office will be required on admission to the program. Students will arrange their program according to the subject matter areas below. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of specific courses. However, final decision on the appropriateness of a program rests with the Psychology Department.

I. Psychological Foundations

These courses are to be a continuation of fundamental psychology courses in learning, experimental psychology, etc., taken during work toward the Master's degree.

II. Psychological Methods and Techniques

Required Courses (other courses may be substituted for any of the courses below which may have been completed prior to entrance into the School Psychology program)

- Psychology 831V, Individual Tests I
- Psychology 831V, Individual Tests II
- Psychology 895V, Practicum in Psychology and either/or
- Psychology 853V, Introduction to Therapeutic Techniques with Children
- Psychology 875V, Behavior Modification

III. Educational Foundations

These courses will be selected from departments of special education, counseling and guidance, and/or elementary education. Approval for inclusion in the program must be obtained from the Psychology Department prior to registration.

Course Descriptions

601M History of Psychology

PREREQ: Permission of instructor

A study through reading and discussion of the significant individual contributors and contributions to the growth of psychology.

603M Psychology of Motivation

PREREQ: Psychology 213, 301, or 304

An exploration of the motivation of organisms including methods, concepts, issues, and theories deriving from historical and contemporary research.
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<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>852M</td>
<td>Introduction to General and Experimental Linguistics</td>
<td>A broad survey of generative syntax, phonology, pragmatics, and related material in linguistic and paralinguistic perception, memory, and communication. Designed primarily for students wishing to apply linguistic methods and thought in the behavioral and communication sciences. Laboratory to be arranged.</td>
<td>3 hours</td>
</tr>
<tr>
<td>855M</td>
<td>Retardation</td>
<td>The course considers significantly sub-average intellectual functioning during the developmental period and associated with impairment in adaptive behavior. Research is emphasized.</td>
<td>3 hours</td>
</tr>
<tr>
<td>857M</td>
<td>Advanced Psychology of Childhood and Adolescence</td>
<td>A systematic review of the research literature related to the biological, social, and cognitive development of children from conception to adolescence.</td>
<td>3 hours</td>
</tr>
<tr>
<td>861M</td>
<td>Psychology of Exceptional Children</td>
<td>A study of the special problems of children with visual, auditory, or neurological impairments, orthopedic anomalies, intellectual retardation or superiority, speech disorders, emotional or social maladjustments, learning disabilities and cultural deprivation; and the characteristic relationships of parents, professionals, and others to these children.</td>
<td>3 hours</td>
</tr>
<tr>
<td>862M</td>
<td>Psychological Aspects of Industrial Training and Education</td>
<td>A study and application of the theory, techniques, and procedures involved in preparing individuals for their jobs through training and education.</td>
<td>3 hours</td>
</tr>
<tr>
<td>863M</td>
<td>Techniques of Programmed Instruction</td>
<td>An introduction to methods and technology in construction and use of teaching machine programs, with special emphasis on computer assisted instruction.</td>
<td>3 hours</td>
</tr>
<tr>
<td>880M</td>
<td>Problems in Psychology</td>
<td>A faculty supervised research project, involving empirical or library work and oral or written reports.</td>
<td>1-3 hours</td>
</tr>
<tr>
<td>891M</td>
<td>Research Problems in Physiological Psychology</td>
<td>An individualized introduction to the techniques and methodology used in the physiological psychology laboratory.</td>
<td>3-6 hours</td>
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<tr>
<td>810V</td>
<td>Prosseminar: Analysis of Variance</td>
<td>A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of variance model.</td>
<td>4 hours</td>
</tr>
<tr>
<td>811V</td>
<td>Prosseminar: Multivariate Regression and Factor Analysis</td>
<td>Advanced problems and techniques of multiple correlation and regression are discussed including special simple correlation methods and problems, multiple regression, multiple correlation, and factor analysis.</td>
<td>4 hours</td>
</tr>
<tr>
<td>820V</td>
<td>Introduction to Counseling Theories (Coun 820V)</td>
<td>Study of contemporary theories of counseling, the counseling process and methods.</td>
<td>3 hours</td>
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### Course Descriptions

**Sociology (SOC)**

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<td>936</td>
<td>Seminar in Applications of Non-Verbal Communication Theory</td>
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<tr>
<td>943</td>
<td>Proseminar, Personality (Pedrin)</td>
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<tr>
<td>944</td>
<td>Proseminar, Social Psychology (Becker, Kessler)</td>
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<td>945</td>
<td>Experimental Social Psychology (Becker, Kessler)</td>
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<tr>
<td>956</td>
<td>Proseminar, Development Psychology (Hamm)</td>
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<tr>
<td>957</td>
<td>Personality Assessment (Becker, Pedrin)</td>
</tr>
<tr>
<td>961</td>
<td>Seminar in Industrial Psychology (Kessler)</td>
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<tr>
<td>963</td>
<td>Personnel Selection and Assessment (Kessler)</td>
</tr>
<tr>
<td>991</td>
<td>Topical Seminar in Psychology (Becker, Defienbacher, Eilsson, Hamm, Hendricks, Kessler, Newton, Pedrin, Strider, Williams)</td>
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</table>

**Experimental Social Psychology**

- **PREREQ**: Graduate standing and basic statistics, psychology 832V and permission of instructor.
- A comprehensive and intensive coverage of the experimental literature in human and infra-human subject development.

**Personality Assessment**

- **PREREQ**: Graduate standing and permission of instructor.
- A course considering the effects of personality variables on behavior. A historical, theoretical, psychometric, and experimental approach will be emphasized.

**Sociology (SOC)**

**Graduate Faculty Members:**

Professors George Barger (Chairman), Philip H. Vogt (Emeritus), Wayne Wheeler;
Associate Professor John R. Nye;
Assistant Professors William T. Clute, Elaine Hess, Merlin I. Hofstetter, Mark O. Rousseau, Robert B. Simpson, Lucille F. Zelinsky;
Graduate Lecturers Harry H. Crockett, Wilfred Logan

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### Applications for Admission

Applicants for admission to the graduate program in sociology must present a minimum of 15 undergraduate semester hours in sociology including a course in statistics. Those students lacking the statistics will be required to make up this deficiency during their first year of graduate study.

**Examinations:** Both the M.A. and M.S. (see below) degree programs with majors in sociology require the incoming student to complete an examination covering basic concepts and theories of the field. The examination is used in counseling the student in his degree program. In addition the student must demonstrate proficiency in sociology through successful completion of four comprehensive examinations.

Two of these comprehensives—Social Theory, and Methodology and Statistics—are required of all graduate students; the two remaining examinations are selected by the student, in consultation with his graduate adviser, from a list available through the Sociology Office. The examinations are given a minimum of twice annually, and other times as required. Detailed explanations of graduate requirements should be secured through the Sociology Office.

The M.A. degree should be sought by students preparing for college-level teaching and continued academic work; the M.S. degree as preparation for field or action application of sociology.

**Master of Arts**

The student is expected to complete Sociology 801V and a minimum of 21 additional graduate semester hours, including at least nine semester hours of 800V-level work. A thesis is required.

**Master of Science with a Major in Applied Sociology**

A student contemplating this degree is expected to complete Sociology 801V and a minimum of 27 additional graduate semester hours, at least nine of which are from the 800V-level selection. In addition, the student must complete satisfactorily six semester-hour equivalents of 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 currently advised to apply for admission to the Graduate School of Social Work at the Lincoln campus).

**Detailed Requirements for the M.S. degree with a major in applied sociology should be secured through consultation with the Sociology Office.**

**Master of Social Work**

The Graduate School of Social Work of the University of Nebraska—Lincoln, in a cooperative program with the Social Welfare program at the University of Nebraska at Omaha, is offering graduate courses on the Omaha campus. Further information may be obtained in consultation with the members of the Social Welfare faculty at the University of Nebraska at Omaha.

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### Course Descriptions

**Anthropology**

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<td>521M</td>
<td>Cultural Anthropology</td>
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- **PREREQ**: Graduate.
- Family, art, war, maintenance, prestige, religion approached as parts of an integrated whole, a way of life of preliterate human society. Illustrations from a number of simple societies, anthropological theories, methods of study.
022M North American Archaeology .......... (I) 3 hours
PREREQ: Graduate
American Indian culture history in North America, with emphasis on
the peopling of the New World, origin and development of New World
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.

022M Introduction to General and Experimental Linguistics .......... 3 hours
PREREQ: Graduate standing
(Cross-listed with Speech and Psychology)
A broad survey of generative syntax, phonology, and pragmatics and
related material in linguistic and paralinguistic perception, memory,
and communication. Designed primarily for students wishing to apply
linguistic methods and thought in the behavioral and communication
sciences. Laboratory to be arranged.

922M Seminar in Anthropological Problems .......... 3 hours
PREREQ: Graduate
A course designed to allow students to pursue individual interests in
various aspects of anthropology. Work with the instructor in projects
designed to increase the student's depth of knowledge in individual
areas.

Social Welfare

844M Social Welfare Methods: Strategy .......... 3 hours
PREREQ: Graduate standing
Basic theory of and skills in social work intervention on the community
level. The application of community organization and social planning
principles in urban and rural areas. Emphasis is placed on: analysis of
social structures; planning goals, processes, and techniques;
decision-making processes; and social change processes and techniques.

844M Application of Social Theory to Social Practice .......... 3 hours
PREREQ: Graduate standing
The application of the concepts, theories, and perspectives of the
behavioral sciences to social welfare theory and practice. An analysis of
various social welfare issues from the perspectives of various social
science concepts and theoretical frameworks.

Sociology

801M Social Control of Behavior .......... (I) 3 hours
PREREQ: Graduate
The social processes by which the person's behavior is adapted to the
group. External restraints, roles, self-control, analysis and measurement
of the social context of socially defined behavior.

802M Collective and Exchange Behavior .......... (II) 3 hours
PREREQ: Graduate
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.

802M Advanced General Sociology .......... (I, II, III) 3 hours
PREREQ: Graduate. Not open to anyone who has recent credit in
Sociology 101. (DOES NOT CARRY GRADUATE CREDIT IN SOCIOL-
ogy)
A survey of the principles of sociology including interaction, groups,
institutions, social organization, and change. Consideration is also given
to sociological techniques, major specialties, and classes of data.

810M The Community .......... (I) 3 hours
PREREQ: Graduate
A basic course in community sociology. Sociological theory and the
techniques of empirical research are applied to published studies of
communities in the United States and elsewhere. The comparative social
scientific method is elaborated as it pertains to data derived from
community investigation.
899M Sociology of Religion
PREREQ: Graduate
Analysis of religious behaviors from a sociological and social-psychological perspective, and utilizing both theoretical and empirical materials. The course is designed as an introduction to the sociology of religion, and the first in a two-step sequence, undergraduate and graduate.

899M Independent Study
PREREQ: Graduate
3 hours
Guided reading in special topics under the supervision of a faculty member.

*81V General Seminar in Sociology
PREREQ: Graduate
3 hours
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 selected substantive problems of sociology.

*81V Seminar in Social Gerontology
PREREQ: Graduate
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.

*82V Seminar in Small Group Communication
PREREQ: Graduate
3 hours
A survey of the small-group communications existing in disadvantaged communities. The effects upon individuals of such settings. The subculture of poverty.

*83V Seminar in Social Gerontology
PREREQ: Graduate
3 hours
An interdisciplinary, developmental study of the impact of aging upon individuals and society, including the subsequent evolution of individuals and society to aging with particular emphasis given to changes during the latter half of the life cycle (45-80 years). Both theoretical and programmatic implications of aging research are considered.

840V Seminar in Small Group Communication
(Same as Speech 840V)
PREREQ: Speech 820V or equivalent, or basic statistics, or permission of the instructor
Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Cross-listed with Speech and Psychology)

*850V Seminar in Research Methods
PREREQ: Graduate
3-6 hours
A complete research project carried out under the supervision of an instructor particularly qualified in the area of concern. Students participate in the background work, question formulation, selection of (or construction of) test instruments, data gathering by methods such as interviewing and participant observation, and analysis.

*855V Seminar in the Sociology of Religion
PREREQ: Graduate
3-6 hours
A seminar dealing with religion as a social and cultural phenomenon. The study theme will vary from time to time in keeping with the special interests of the instructor.

*860V Seminar in Social Organization
PREREQ: Graduate
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 organization selected by the instructor.

*870V Seminar in Sociological Theory
PREREQ: Graduate
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.

*As seminar topics change, these course numbers may be repeated in a student's program without implying duplication.

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**871V Population Seminar (Same as Geography 871V)**
PREREQ: Permission
The significance of differences from place to place in the number, kind, and qualities of human inhabitants and changes through time.

**880V Independent Study in Topics on 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)
Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.

**881V Urban Seminar in Metropolitan Planning and Development**
(See Geography 881V)
3 hours

**885V-B86V Interdisciplinary Seminar on the Urban Community**
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)
An interdisciplinary course in the urban community and city building, with a particular emphasis on urban development and the social problems of urban concentrations. The discussion of urban problems is put in broad interrelated focus.

**885V-B86V Urban Economics (See Economics 885V-B86V)**
3-6 hours

**899V-096V 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.

**989 Thesis**
1-6 hours

**303U-304U Internship**
(Same as Political Science 303U-304U)
1-6 hours

**SPEECH (SPCH)**
Graduate Faculty Members:
Professors John K. Brillhart (Chairman), Elton S. Carter, Edwin L. Clark;
Associate Professor Donald D. Manson
Assistant Professor Robert B. Moore

**Master of Arts**
An applicant for admission to the Master of Arts degree with a major in speech must present a minimum of 15 undergraduate semester hours beyond the introductory course, including advanced work in the area of which he intends to concentrate his graduate program.

All candidates are required to complete Speech 801V, "Introduction to Research in Speech." Students majoring in Theatre must also complete Speech 820V, "Dramatic Theory and Criticism"; all others must complete Speech 850V, "Theories of Communication." At least 15 of the required 30 hours, including thesis, must be courses in which only graduate students are enrolled. Every M.A. candidate must complete a thesis on an approved problem or production.

The degree of Master of Science with a major in Secondary Education and an emphasis in Speech (12-18 credit hours) is offered by the Department of Secondary Education.

*As seminar topics change, these course numbers may be repeated in a student's program without implying duplication.*
Course Descriptions

801M Advanced Projects in Speech  (I, II) Each 1-3 hours
PREREQ: 9 hours of speech in the general area to be studied and permission of the instructor. Special projects in speech supplementing regular courses; individual research projects; combined study and practicum.

802M Rhetorical Criticism  3 hours
PREREQ: 9 hours of speech
Significant movements in the development of rhetorical criticism from antiquity to the present.

814M Greek and Roman Rhetoric and Oratory  3 hours
PREREQ: 9 hours of speech
The origin and development of rhetorical theory and practice in antiquity.

812M Studies in American Public Address  3 hours
PREREQ: 9 hours of speech
Study of representative American speakers from the eighteenth century to the present.

813M Rhetorical Analysis of Afro-American Documents  3 hours
PREREQ: Graduate standing
Review, analysis, and evaluation of significant documents spoken or written by Afro-Americans from the Seventeenth Century to the present.

820M History of the Theatre  3 hours
PREREQ: Speech 220
A survey of the great periods of theatrical history and the playwrights, producers and actors who were responsible for this growth and development.

821M Acting: Historical Periods and Styles  Each 3 hours
PREREQ: Speech 220 or permission of instructor
The fundamental theories and practices of major styles of acting from Ancient Greece to the present, including interpretation of outstanding dramatic literature.

822M Scene Design  3 hours
PREREQ: Speech 250 and 253
Principles of composition, perspective and color for the stage; the designer's approach to the play, production of ground plans, elevations and sketches.

824M Stage and TV Lighting  3 hours
PREREQ: Speech 250 and 253
Characteristics and control of light and color and their application to the theatre and television; elementary electricity; lens systems, deflectors, lamps; control systems.

825M Play Direction  (I, II) 3 hours
PREREQ: Speech 250 or permission of instructor
A practicum in play selection, analysis, casting, directing and performing.

827M Costume History and Design  3 hours
PREREQ: Speech 257 or permission of instructor
The history of human adornment from prehistoric to modern man; theory and practice in theatrical costume design.

831M Political Broadcasting  3 hours
PREREQ: Speech 230 or Journalism 101 or Political Science 100
A study of the evolving role of the electronic media in shaping political activities in our contemporary democratic society.

834M Radio and TV Programming and Audience Analysis  3 hours
PREREQ: Speech 230 and/or permission of department chairman
An investigation into the sources of programs, program ideas, and the development and expansion of current program formats. Analysis of audience reaction and projects in informal broadcast audience measurement are part of the course work.

835M Broadcasting and the Public  (I, II) 3 hours
PREREQ: Speech 230 or permission of the instructor
A study of the effects of broadcasting and its relationships to other mass media; emphasis on the sociological, economic, and legislative aspects of the medium.

837M Communication Workshop  3 hours
PREREQ: Speech 230 and permission of the instructor
To explore and develop new communication processes which can be of service at the individual and community level; to develop skills in the formulation and execution of such processes; and to increase awareness of the pragmatics of communication.

850M Introduction to General Semantics  (II) 3 hours
PREREQ: 6 hours speech and 3 hours psychology or permission of instructor
An introduction to the system of general semantics, considering both limitations and practical applications to perception, thinking, and communicating.

851M Persuasion  (I, II, S) 3 hours
PREREQ: Speech 101 and 3 hours psychology or sociology or permission
Basic principles and psychological processes underlying persuasive communication; a review of various source, message, channel, and receiver variables and their influence on communication effectiveness.

852M Introduction to General and Experimental Linguistics  3 hours
PREREQ: Senior or graduate standing in psychology or speech or permission of instructor
A broad survey of generative syntax, phonology, and pragmatics and related material in linguistic and paralinguistic perception, memory, and communication. Individual papers required in areas of student interest. Designed primarily for students desiring to apply linguistic methods and thought in the behavioral and communication sciences. Laboratory to be arranged.

853M Seminar in Cross Cultural Communication  3 hours
PREREQ: Admission to graduate study and permission of the instructor
Directed towards understanding the components of cultural and subcultural misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations. (Cross-listed as Soc. 853M)

861M History and Problems in Speech Education  (II) 3 hours
PREREQ: Speech 112 or permission
A study of the development of speech as an academic discipline; recent movements in speech and the contribution of quantitative methodology to speech research and education.

862M Directing Forensics  3 hours
PREREQ: Speech 112 or permission
To provide students planning to teach speech in high school or college with a philosophy and detailed knowledge of how to direct a forensic program.

971M Advanced Oral Interpretation  3 hours
PREREQ: Speech 171
Theories and forms of interpretation from antiquity to the present: preparation and presentation of a reenactment.

981V Introduction to Research in Speech  (I) 3 hours
PREREQ: Speech 257 or permission of instructor
Basic components, functions, and spirit of research; research methods in the arts and sciences of oral communication; preparation of a thesis proposal.

981V Seminar: Modern Public Address  3 hours
PREREQ: Permission of the instructor
Studies in figures, movements and institutions prominent in modern public address. May be repeated.

991V College Debate Workshop  3 hours
PREREQ: Graduate standing and permission
A comprehensive analysis of the current intercollegiate debate proposition. Also stresses methods of coaching debate and debate management at the college level. Students taking this course may not also receive credit for Speech 622M, "Directing Forensics," toward a degree at UNO.

995V Dramatic Theory and Criticism  3 hours
PREREQ: Speech 250 or permission of instructor
For advanced students of dramatic literature. Important dramatic theories and criticism from antiquity to the present.
821V Seminar in Contemporary Theatre Aesthetics
PREREQ: Speech 220, Speech 420, and English 252 or permission.
Research and dialogue in the aesthetic theories and movements in the contemporary theatre. Emphasis on the sources, background, and configuration of theatrical styles in this century.

825V Seminar in Play Direction
PREREQ: Graduate standing and permission of instructor
An indepth study of the principles of play direction.

850V Seminar in Communication Theory
PREREQ: Basic statistics or by permission of the instructor
Analysis of current approaches to the study of communication, with emphasis on theoretical models and their application to various professional interests.

599 Thesis
Independent research project written under the supervision of an adviser.

940 Seminar in Small Group Communication
PREREQ: Speech 301 or equivalent, or basic statistics, or permission of the instructor
Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Brilhart, J.)

555 Seminar in Applications of Non-Verbal Communication Theory
PREREQ: Course in research methods or permission of instructor
Theories and research on the development, facilitation, and barriers of human non-verbal communication. Analysis of non-verbal interaction with specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication. (Crosslisted as Psychology 936 and Sec. Ed. 936) (Brilhart, B.)
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