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**OFFICIAL CALENDAR**

**SUMMER SESSIONS 1973**

- **June 8-9**  
  Regular Registration.

- **June 11-July 13**  
  First Session.

- **June 11-Aug. 2**  
  Evening Session.

- **June 22**  
  Last day for filing admissions credentials for admission to the Second Summer Session 1973.

- **July 4**  
  Holiday. (University closed—day and evening.)

- **July 16-Aug. 17**  
  Second Session.

- **July 20**  
  Last day for filing applications for degrees to be conferred August 31, 1973 (No ceremony).

- **Aug. 15**  
  Signed and approved theses due in the Graduate Office.

**FIRST SEMESTER 1973-74**

- **July 15**  
  Last day for submitting credentials for admission to the Graduate College for the First Semester 1972-74.

- **August 1**  
  Last day for submitting credentials for admission to an undergraduate college for the First Semester 1973-74.

- **August 20**  
  Beginning of Academic Year.

- **August 22-23**  
  Final Registration.

- **August 24-31**  
  Change of class schedules.

- **August 27**  
  First Semester begins at 0730 both day and evening classes.

- **August 31**  
  Last day up to 1600 for change of class schedules.  
  (Adding a class to a schedule, changing a class from “audit” to an enrollment for a grade, or changing a CR/NC class registration to a grade registration.)

- **September 3**  
  Labor Day. University closed.

- **October 13**  
  Homecoming Football Game.

- **October 15**  
  Last day for filing applications for degrees to be conferred in December.

- **October 27**  
  Parent’s Day.

- **October 22**  
  Due: Mid-term (8th week) report from faculty for grades under C for all undergraduates.

- **November 9**  
  Last day a class may be dropped in order to receive a “W.” Last day a class may be changed to “audit” or changed from a grade registration to CR/NC.

- **November 20**  
  Thanksgiving recess begins at 2140.

- **November 22-23**  
  University closed. Holiday.

- **November 26**  
  Classes resume at 0730.

- **December 14**  
  Status report for all prospective graduating students due in Registrar’s Office by 1200.

**SECOND SEMESTER 1973-74**

- **January 1**  
  Holiday. University closed.

- **January 2**  
  Last day for submitting credentials for admission to an undergraduate college for the Second Semester 1973-74.

- **January 2-11**  
  Activities to be arranged.

- **January 9-10**  
  Final Registration.

- **January 11-18**  
  Change of class schedules.

- **January 14**  
  Second Semester begins at 0730 both day and evening classes.

- **January 18**  
  Last day up to 1600 for a change of class schedules.  
  (Adding a class to a schedule, changing a class from “audit” to an enrollment for a grade, or changing a CR/NC class registration to a grade registration.)

- **March 15**  
  Last day for filing applications for degrees to be conferred in May.

- **March 18**  
  Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.

- **March 23**  
  Spring vacation begins at 1200.

- **March 25-26**  
  Holiday. University closed.

- **April 1**  
  Classes resume at 0730.

- **April 5**  
  Last day a class may be dropped in order to receive a “W.” Last day a class may be changed to “audit” or changed from a grade registration to CR/NC.

- **April 7**  
  Honors Day at 1430.

- **April 15**  
  Last day for submitting credentials for admission to the Graduate College for the Evening Summer Session 1973-74.

- **May 3**  
  Status Report for all prospective graduating students due in Registrar’s Office by 1200.

- **May 8**  
  Last day of classes.

- **May 10**  
  Grades due in Registrar’s Office by 1600.

- **May 11**  
  Commencement.

- **May 15**  
  Last day for submitting credentials for admission to the Graduate College for the First Summer Session 1973-74.

- **May 25**  
  Alumni Achievement Day.

- **May 27**  
  Memorial Day. University closed.

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 59.*

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 59.*
### UNIVERSITY OF NEBRASKA AT OMAHA

**The Board of Regents**
- Robert Kosefoot, M.D., Grand Island, Chairman
- Edward Schwartzkopf, Lincoln
- J. G. Elliott, Scottsbluff
- Kermit Hansen, Omaha
- Kermit Wagner, Schuyler
- Ralph H. Bradley, Corporation Secretary
- D. B. Varner, M.S., President

**ADMINISTRATION**
- Ronald W. Roskens, Ph.D., Chancellor
- Ronald S. Beer, Ph.D., Vice-Chancellor for Educational and Student Services
- William L. Gaines, Ph.D., Dean of Academic Affairs
- Tim E. Sheehy, Ph.D., Executive Assistant to the Chancellor
- Charles Hein, A.B., Director of University Relations
- Rex Engebretson, Ed.D., Assistant to the Chancellor for Planning
- Clyde Biggers, M.A., Director of Athletics
- Virgil V. Sharpe, B.A., Registrar
- Jay W. Cox, M.A., Director of Admissions
- Harold D. Keefer, B.S., Director of Business and Finance

### THE UNDERGRADUATE COLLEGES

- John V. Blackwell, Ph.D., Dean, The College of Arts and Sciences
- Bartholomew Dennehy, Ph.D., Associate Dean, The College of Engineering and Architecture
- 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
- Hubert G. Locke, M.A., Dean, School of Public Affairs and Community Service

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

### SUMMER SESSIONS 1974

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<td>June 15</td>
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<td>July 1</td>
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<td>July 4-5</td>
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<td>July 15</td>
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<td>August 1</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1974-75.</td>
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<tr>
<td>August 9</td>
<td>Status Report for all prospective graduating students due in Registrar's Office by 1200.</td>
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<td>August 17</td>
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<td>August 21</td>
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*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 59.*
### GRADUATE FACULTY

#### 1973-74

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<th>Position</th>
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<td>ROBERT L. ACKERMAN</td>
<td>Elementary and Early Childhood</td>
<td>Ed.D., University of Nebraska-Lincoln, 1966;</td>
<td>Professor and Chairman of Department</td>
</tr>
<tr>
<td>PAUL B. ACKERSON</td>
<td>Secondary Education</td>
<td>Ed.D., Oklahoma State University, 1968;</td>
<td>Professor</td>
</tr>
<tr>
<td>FREDERICK W. ADRIAN</td>
<td>History</td>
<td>Ph.D., Ohio State University, 1942;</td>
<td>Professor</td>
</tr>
<tr>
<td>JAMES C. AKERS</td>
<td>Special Education (Reading)</td>
<td>Ed.D., Oklahoma State University, 1969;</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>CLIFFORD ANDERBERG</td>
<td>Philosophy and Religion</td>
<td>Ph.D., University of Wisconsin, 1953;</td>
<td>Professor and Chairman of the Department</td>
</tr>
<tr>
<td>AARON ARMFIELD</td>
<td>Special Education</td>
<td>Ed.D., Northern Colorado University, 1964;</td>
<td>Professor and Chairman of Department</td>
</tr>
<tr>
<td>BRUCE P. BAKER II</td>
<td>English</td>
<td>Ph.D., Texas Christian University, 1968;</td>
<td>The Albert H. Jeffries Professor and</td>
</tr>
<tr>
<td>GEORGE BARGER</td>
<td>Sociology</td>
<td>Ph.D., University of Missouri, 1964;</td>
<td>Chairman of Department</td>
</tr>
<tr>
<td>NICHOLAS BARISS</td>
<td>Geography</td>
<td>Ph.D., Clark University, 1967;</td>
<td>Professor</td>
</tr>
<tr>
<td>PAUL L. BECK</td>
<td>History</td>
<td>Ph.D., University of Nebraska-Lincoln, 1951;</td>
<td>Professor</td>
</tr>
<tr>
<td>GORDON BECKER</td>
<td>Psychology</td>
<td>Ph.D., University of Pittsburgh, 1955;</td>
<td>Professor</td>
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<tr>
<td>JOSEPH V. BENAK</td>
<td>Civil Engineering</td>
<td>Ph.D., University of Illinois, 1967;</td>
<td>Registered Professional Engineer; Professor</td>
</tr>
<tr>
<td>ROBERT W. BENECKE</td>
<td>Business Administration (Finance)</td>
<td>D.B.A., University of Colorado, 1966;</td>
<td>Professor</td>
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<tr>
<td>KENNETH BERRY</td>
<td>Psychology</td>
<td>Ph.D., Texas Christian University, 1964;</td>
<td>Assistant Professor of Medical Psychology;</td>
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<tr>
<td>HOLLIE B. BETHEL</td>
<td>Elementary and Early Childhood</td>
<td>Ed.D., University of Colorado, 1957;</td>
<td>Professor</td>
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<tr>
<td>JOHN V. BLACKWELL</td>
<td>Art</td>
<td>Ph.D., State University of Iowa, 1957;</td>
<td>Professor and Dean of the College of Arts</td>
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<tr>
<td>RICHARD BLAKE</td>
<td>Counseling and Guidance</td>
<td>Ed.D., University of Missouri, 1960;</td>
<td>Professor and Chairman of Department</td>
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<tr>
<td>WILLIAM L. BLIZEK</td>
<td>Philosophy</td>
<td>Ph.D., University of Missouri, 1970;</td>
<td>Assistant Professor</td>
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<tr>
<td>M. JEAN BRESSLER</td>
<td>Secondary Education and English</td>
<td>Ph.D., University of Nebraska-Lincoln, 1965;</td>
<td>Associate Professor</td>
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<tr>
<td>BARBARA L. BRILHART</td>
<td>Secondary Education</td>
<td>Ph.D., Pennsylvania State University, 1966;</td>
<td>Associate Professor</td>
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<td>JOHN K. BRILHART</td>
<td>Speech</td>
<td>Ph.D., Pennsylvania State University, 1952;</td>
<td>Professor and Chairman of Department</td>
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<tr>
<td>NAN L. BRITT</td>
<td>History</td>
<td>Ph.D., Emory University, 1972;</td>
<td>Assistant Professor</td>
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<tr>
<td>MERLE E. BROOKS</td>
<td>Biology</td>
<td>Ph.D., University of Colorado, 1966;</td>
<td>Professor</td>
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<td>EVAN BROWN</td>
<td>Psychology</td>
<td>Ph.D., University of Washington, 1959;</td>
<td>Assistant Professor</td>
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<td>WILLIAM M. BROWN</td>
<td>Business Administration</td>
<td>Ph.D., University of Pittsburgh, 1957;</td>
<td>Professor</td>
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<td>BARBARA E. BUCHALTER</td>
<td>Mathematics</td>
<td>Ph.D., University of Arizona, 1968;</td>
<td>Associate Professor</td>
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<tr>
<td>SIDNEY BUCHANAN</td>
<td>Art</td>
<td>M.S., New Mexico Highlands University, 1963;</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>CHARLES M. BULL</td>
<td>Business Administration</td>
<td>Ph.D., University of Nebraska-Lincoln, 1962;</td>
<td>Professor and Chairman of Department</td>
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<tr>
<td>DALE M. BUNSEN</td>
<td>Secondary Education</td>
<td>Ed.D., University of Nebraska-Lincoln, 1968;</td>
<td>Associate Professor</td>
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<tr>
<td>KENNETH BURKHOLDER</td>
<td>Educational Administration</td>
<td>Ed.D., University of Nebraska-Lincoln, 1965;</td>
<td>Professor</td>
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<tr>
<td>KARL H. D. BUSCH</td>
<td>Biology</td>
<td>Ph.D., Ohio State University, 1949;</td>
<td>Professor</td>
</tr>
<tr>
<td>ROBERT R. BUTLER</td>
<td>Counseling and Guidance</td>
<td>Ph.D., University of Missouri, 1970;</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>WALTER M. CALINGER</td>
<td>Experimentation and Development</td>
<td>Ph.D., Ohio State University, 1970;</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>H. CARL CAMP</td>
<td>Political Science</td>
<td>Ph.D., Washington University, 1965;</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>JO ANN CARRIGAN</td>
<td>History</td>
<td>Ph.D., Louisiana State University, 1951;</td>
<td>Professor</td>
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<tr>
<td>ELTON S. CARTER</td>
<td>Speech</td>
<td>Ph.D., Northwestern University, 1956;</td>
<td>Professor and Dean of Graduate College;</td>
</tr>
<tr>
<td>EDWIN L. CLARK</td>
<td>Speech (Theatre)</td>
<td>Ph.D., State University of Iowa, 1951;</td>
<td>Professor and Director of University Theatre</td>
</tr>
<tr>
<td>WILLIAM T. CLUTE</td>
<td>Sociology</td>
<td>Ph.D., University of Minnesota, 1969;</td>
<td>Assistant Professor</td>
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<td>JAMES J. CONWAY</td>
<td>Business Administration</td>
<td>D.B.A., Texas Tech University, 1970;</td>
<td>Professor</td>
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<tr>
<td>HARRY J. CROCKETT, JR.</td>
<td>Sociology</td>
<td>Ph.D., University of Michigan; Graduate</td>
<td>Professor</td>
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<tr>
<td>DONALD CUSHENBERG</td>
<td>Special Education (Reading)</td>
<td>Ed.D., University of Missouri, 1964;</td>
<td>Foundations Professor; Director of Reading</td>
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<tr>
<td>HAROLD L. DAVIS</td>
<td>Industrial Technology</td>
<td>Ed.D., University of Nebraska-Lincoln, 1970;</td>
<td>Associate Professor</td>
</tr>
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</table>
G. WAYNE GLIDDEN     Educational Foundations
Ph.D., University of Nebraska-Lincoln, 1964; Professor and Chairman of Department

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

RAYMOND A. GUENTHER     Physics
Ph.D., Illinois Institute of Technology, 1969; 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     Counseling and Guidance
Ph.D., University of Colorado, 1971; Assistant Professor

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

ROGER R. HARVEY     Special Education (Specific Learning Disabilities)
Ph.D., East Texas State University, 1979; Associate Professor

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

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

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

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

* PETER W. HILL     Art
M.F.A., Cranbrook Academy of Art, 1968; Professor and Chairman of Department

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

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

MERLIN I. HOFSTETTER     Sociology
Ph.D., University of Oregon, 1970; Assistant Professor

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

JAMES Q. HOSSACK     Civil Engineering
M.S.E., University of Nebraska-Lincoln, 1956; Registered Professional Engineer; Professor

HELEN HOWELL     Elementary and Early Childhood Education
Ed.D., University of Colorado, 1969; Professor
FRANCIS M. HURST .......... Psychology
Ed.D., Indiana University, 1961; Professor

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

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

ORIGEN J. JAMES, JR. .......... Business Administration
D.B.A., Texas Tech University, 1969; Associate Professor

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

JAMES B. JOHNSON .......... Political Science
Ph.D., Northwestern University, 1972; Assistant Professor

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

ANTHONY JUNG .......... Foreign Languages
Ph.D., University of Illinois, 1972; Assistant Professor

JOHN C. KASHER .......... Physics
Ph.D., Boston College, 1976; Assistant Professor

DARRELL F. KELLA NS .......... Educational Administration
Ed.D., University of Kansas, 1964; Professor and Chairman of Department

ERNST J. KEMNITZ .......... Chemistry
Ph.D., University of Nebraska-Lincoln, 1971; Assistant Professor

PAUL C. KENNEDY .......... Educational Administration and Educational Foundations
Ed.D., University of Kansas, 1965; Professor and Dean, College of Education

C. ROBERT KEPPEL .......... Chemistry
Ph.D., Massachusetts Institute of Technology, 1959; Professor

*CLEMM KESSLER III .......... Psychology
Ph.D., Western Reserve University, 1967; Associate Professor

BRUCE A. KIRCHHOFF .......... Business Administration
Ph.D., University of Utah, 1972; Assistant Professor (Management)

RICHARD G. KOHLAN .......... Psychology
Ph.D., University of Minnesota, 1966; Assistant Professor

BERNARD D. KOLASA .......... Political Science
Ph.D., University of Nebraska-Lincoln, 1969; Associate Professor

YOUSSEFF I. KOUATLY .......... Business Administration
Ph.D., University of Pennsylvania, 1971; Associate Professor (Insurance)

EDWARD LA CROSSE .......... Special Education
( Teaching the Mentally Retarded)
Ed.D., Teachers College, Columbia University, 1964; Graduate Lecturer

W.C.B. LAMBERT .......... Political Science
Ph.D., Washington University, 1950; Professor

RICHARD L. LANE .......... English
Ph.D., University of Arkansas, 1908; Professor

JOSEPH C. LA VOITE .......... Psychology
Ph.D., University of Wisconsin, 1976; Assistant Professor

WILLIAM B. LEMAR .......... Engineering
M.E., Yale University, 1947; Registered Professional Engineer; Associate Professor

MARY JANE LICHTTEIG .......... Elementary and Early Childhood
Ed.D., University of Oregon, 1972; Assistant Professor

WALTER W. LINSTMORGB ......... Chemistry
Ph.D., University of Missouri, 1963; Professor

WILFRED LOGAN .......... Sociology
Ph.D., University of Michigan, 1959; Graduate Lecturer

JOHN W. LUCAS .......... Business Administration (Marketing)
M.B.A., Ohio State University, 1930; LL.D., University of Omaha, 1968; 1968; Emeritus Professor

NORMAN J. LUNA .......... Foreign Languages
Ph.D., University of Colorado, 1969; Associate Professor

STEELE R. LUNT .......... Biology
Ph.D., University of Utah, 1964; Associate Professor

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

JOHN P. MALONEY .......... Mathematics
Ph.D., Georgetown University, 1968; Associate Professor

D. N. MARQUARDT .......... Chemistry
Ph.D., State University of Iowa, 1940; Professor and Chairman of Department

E. GRANT MASLAND .......... Sociology
Ph.D., Claremont Graduate School, 1971; Assistant Professor

ROBERT P. McCUNE .......... Urban Studies and Economics
Ed.D., Ball State University, 1971; Assistant Professor; Acting Director of Research and Planning for SPACES; Assistant Professor of Urban Studies

JOHN J. McKENNA .......... English
Ph.D., Ohio University, 1976; Assistant Professor

KATHLEEN A. MCKENNY .......... Special Education
(Medical Language)
M.S., University of Wisconsin, 1965; Assistant Professor

JOHN G. MCMILLAN .......... Physics
M.A., University of Wisconsin-Lincoln, 1942; Professor and Chairman of Department

*GILBERT MEIER .......... Psychology
Ph.D., Washington University, 1943; Professor of Psychology, College of Medicine (Joint Appointment)

*ORVILLE D. MENARD .......... Political Science
Ph.D., University of Nebraska-Lincoln, 1964; Associate Professor

*C. RAYMOND MILLIMET .......... Psychology
Ph.D., Oklahoma State University, 1968; Associate Professor

JOYCE MINTZER .......... Business Administration
Ed.D., Indiana University, 1967; Professor (Communications)

ROBERT B. MOORE .......... Speech (Theatre)
Ph.D., University of Denver, 1971; Assistant Professor

WOODROW L. MOST .......... Foreign Language
Ph.D., Laval University, 1953; Professor and Chairman of Department

KIRK E. NAYLOR .......... Educational Administration
Ed.D., University of Kansas, 1952; Professor

GLEN A. NEWKIRK .......... English
Ph.D., University of Denver, 1956; Professor

JOHN M. NEWTON .......... Psychology
Ph.D., Ohio State University, 1955; Professor and Chairman of Department

DONALD A. NIELSEN .......... Economics
Ph.D., Syracuse University, 1970; Associate Professor
JOHN R. NYE Ph.D., Iowa State University, 1968; Associate Professor Sociology

B. GALE OLESON Ph.D., University of Wyoming, 1953; Professor, Director, University Testing and Counseling Center Counseling and Guidance

*ROBERT C. O’REILLY Ed.D., University of Kansas, 1962; Professor, Director of Grants Development Educational Administration

RICHARD F. ORTMAN Ph.D., University of Wisconsin, 1971; C.P.A.; Assistant Professor (Accounting) Business Administration

RICHARD A. OVERFIELD Ph.D., University of Maryland, 1969; Associate Professor History

RUSSELL W. PALMER Ph.D., University of Iowa, 1966; Associate Professor Religion

*D. T. PEDRINI Ph.D., University of Texas, 1958; Professor Psychology

JAMES B. PETERSON Ph.D., State University of Iowa, 1952; Professor and Chairman of Department Music

*WILLIAM PETROWSKI Ph.D., State University of Wisconsin, 1966; Associate Professor History

DONALD J. PFIZER Ph.D., University of Nebraska, 1963; Associate Professor Counseling and Guidance Counseling and Guidance

ROSS A. PILKINGTON Ed.D., University of Nebraska-Lincoln, 1971; Assistant Professor Counseling and Guidance

*WILLIAM C. PRATT Ph.D., Emory University, 1969; Associate Professor History

CHERYL H. PREWETT N.S., Oklahoma State University, 1939; Professor, Chairman of Department Industrial Technology

LEONARD W. PRESTWICH Ph.D., Ohio State University, 1957; Professor; Director, Retail Management Program Business Administration (Marketing)

*PAUL V. PRIOR Ph.D., University of Iowa, 1950; Professor and Chairman of Department Biology

GEORGE R. RACHFORD Ed.D., Indiana University, 1955; Professor Educational Administration

JOHN P. RADUCHA Ed.D., North Texas State University, 1970; Assistant Professor Recreation Health, Physical Education and Recreation

M. N. REDDY Ph.D., Oklahoma State University, 1965; Associate Professor Civil Engineering

HAROLD J. RETALLICK Ph.D., Clark University, 1950; Professor Geography

*HARRY W. REYNOLDS, JR. Ph.D., University of Pennsylvania, 1954; Professor Political Science and Public Administration

*ROY M. ROBBINS Ph.D., University of Wisconsin, 1929; Emeritus Professor History

STEPHEN P. ROBBINS Ph.D., University of Arizona, 1971; Assistant Professor (Management) Business Administration

MICHAEL J. ROCKLER Ph.D., University of Minnesota, 1969; Assistant Professor Secondary Education

WILBUR F. ROGERS Ph.D., Pennsylvania State University, 1970; Registered Professional Engineer; Associate Professor Civil Engineering

*WILLIS P. ROKES Ph.D., Ohio State University, 1959; C.P.A.; Professor Business Administration

J.D., University of Utah, 1951; Ph.D., Ohio State University, 1959; C.P.A.; Professor Business Administration (Business Law and Society)

*RONALD W. ROSKENS Ph.D., University of Iowa, 1958; Professor and Chancellor of the University of Nebraska at Omaha

MARK O. ROUSSEAU Sociology

Ph.D., University of North Carolina, 1971; Assistant Professor

GENE E. RUSSELL English

Ph.D., University of Wisconsin, 1971; Assistant Professor Secondary Education

EDWARD J. SADLER Ph.D., University of Nebraska-Lincoln, 1958; Associate Professor Engineering

HARRY L. SASLOW Psychology

Ph.D., University of Pittsburgh, 1959; Associate Professor of Child Health (Pediatrics), College of Medicine (Joint Appointment)

*GORDON SCHILZ Geography

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

DAVID C. SCOTT Ph.D., University of Iowa, 1948; Professor and Chairman of Department Political Science and Public Administration

JAMES W. SELEE Educational Experimentation and Development

Ph.D., University of Colorado, 1964; Professor

HENRY SERENCO Art

M.F.A., Alfred University, College of Ceramics 1970; Assistant Professor

ROGER S. SHARPE Biology

Ph.D., University of Nebraska-Lincoln, 1968; Associate Professor

*JOHN F. SHRODER, JR. Geography

Ph.D., University of Utah, 1967; Associate Professor

ROBERT B. SIMPSON Sociology

Ph.D., Washington University, 1970; Assistant Professor

DAVID SHOTA Business Administration (Real Estate)

Ph.D., University of Arizona, 1971; Associate Professor

*KEITH P. SMITH Mathematics

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

PAUL J. STAGEMAN Chemistry

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

ELROY J. STEELE Economics

Ph.D., State University of Iowa, 1957; The Frederick W. Kayser Professor and Chairman of Department Economics

JACQUELINE D. ST. JOHN History

Ph.D., University of Oklahoma, 1965; Associate Professor

JUSTIN D. STOLEN Economics

Ph.D., University of Illinois, 1969; Associate Professor

DALE A. STOVER Religion

Ph.D., McGill University, 1957; Associate Professor

*FRED STRIDER Psychology

Ph.D., University of Nebraska-Lincoln, 1961; Associate Professor of Medical Psychology (Joint Appointments), College of Medicine (Joint Appointments)

DANIEL M. SULLIVAN Chemistry

Ph.D., University of Nebraska, 1972; Assistant Professor
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>
<thead>
<tr>
<th>Department or Area</th>
<th>Minor Only</th>
<th>Master of Arts</th>
<th>Master of Science</th>
<th>Other</th>
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<tbody>
<tr>
<td>Art</td>
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<td>Biology</td>
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<td>Educational Foundations</td>
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<td>Elementary and Early Education</td>
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<td>Elementary Counseling</td>
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* Member, Graduate Faculty, University of Nebraska System
EXAMINATIONS FOR GRADUATE STUDENTS

Graduate Record Examination

Graduate students are required to take the Graduate Record Examination (GRE) 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. The examination is not used to exclude admission at the Masters level.

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. Scores on the ATSB must accompany the application for admission to the Master of Business Administration program.

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 GRE 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 above 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 or the Graduate Office, Adm 203.

Graduate Record Examination
(Both General Aptitude and Advanced Area Sections are Required)

<table>
<thead>
<tr>
<th>Registration Deadlines</th>
<th>Testing Dates</th>
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<tbody>
<tr>
<td>March 28, 1973</td>
<td>April 28, 1973</td>
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<td>May 16, 1973</td>
<td>June 16, 1973</td>
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<td>September 20, 1973</td>
<td>October 27, 1973</td>
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<td>March 27, 1974</td>
<td>April 27, 1974</td>
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<td>May 15, 1974</td>
<td>June 15, 1974</td>
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</table>

Counseling and Guidance Department

The Connecting and Guidance Department requires those wishing to pursue a degree program in counseling to take admissions tests in addition to the Graduate Record Examination (see page 59).

The Test of English as a Foreign Language

The Test of English as a foreign language (TOEFL) scores must be on file in the Director of Admissions Office before an application for admission to the Graduate College is mailed to a foreign student desiring to enroll for graduate work at UN-O. This provision does not apply to those foreign students whose native language is English.

ACCREDITED STANDING

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

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

UNIVERSITY REGULATIONS

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

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

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

In the Graduate College, requirements may be made retroactive only for those students who do not maintain a continuity of enrollment. "Continuity" means that the student is enrolled in both semesters of every academic year or in at least one session every summer until all requirements for the degree have been satisfied.
GRADUATE COLLEGE
Elton S. Carter, Dean

The first Master's degrees were awarded in 1919 by a special vote of the Board of Trustees of the "old" University of Omaha. In 1932, 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 its Chairman became the Director of the Graduate Division.

In 1960, the Board of Regents authorized a year of graduate study in the Board of Trustees 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, Master of Social Work, 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 pro-

grams, 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 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 UN-O 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. James Akers, Dr. Barbara Buchalter, Dr. Larry Ehlers, Dr. Eugene Freund, Dr. Raymond Guenther, Dr. Hari Jarmin, Dr. Bruce Kirchhoff, Dr. Orville Menard, Dr. David Sirota, Dr. Ralph Wadie, Dr. Charles Wilson; Dean Elton S. Carter, Chairman; and Mr. Jack 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) and 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 Director of Grants Development and the Dean of the Graduate College. The current elected members are Dr. Bruce Kirchhoff, Chairman; Dr. Kenneth Deffenbacher; Dr. Allen Weber; Dr. Charles Wilson; Dr. Raymond Ziebarth; and Monte Anderson and Phoebe Herbst, graduate student representatives.
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 of the Graduate Dean). 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 satisfy 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 are 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. Sharpe Lewis; Dr. Norman Hamm; Assistant Dean (College of Education) Tom Norwood; Dr. John Shroder; 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. Two (2) official transcripts of all undergraduate (and graduate, if any) college 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. Scores on the ATGSB which must accompany the application for admission to the Master of Business Administration program.

NOTE: For consideration for the Fall, Spring, Evening Summer, First Summer or Second Summer term, above credentials must be on file by July 15, December 15, April 15, May 15 or June 15 respectively. Those desiring graduate credit for a renewal of a teacher's certificate, for professional development, and for graduate credit to be transferred to other school.

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

Admission to the Graduate College does not admit the student to candidacy for any graduate degree. (See "Admission to Candidacy for Graduate Degrees.")

MATRICULATION FEE

A matriculation fee of $10 is payable upon initial enrollment in the Graduate College.

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 term. (A credit student may change to audit registration during the first eight weeks of a semester, or during the first half of a class if it runs longer 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 nine credit hours, the Request to Change Graduate Degree Program form should be used; for those having completed nine 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 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 in the field in which he intends to pursue graduate study 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 adviser (and of 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.
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 written in accordance with a standard thesis manual. The Graduate Faculty has approved an official manual for each department and the student will be advised by his major adviser of the standard form to be used.

The cost of binding three copies (see Fees) must be paid by the candidate at the time the thesis is submitted in final form to the Graduate Office. If the department conducting the thesis requires an additional copy, it is to be bound at 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.

The scheduling of oral examinations during the summer sessions will be contingent upon the availability of appropriate members of the Graduate Faculty.

**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 either be written or oral at the option of the department concerned. 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 for the M.S. degree.

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

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

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**TIME LIMIT FOR ALL MASTER'S DEGREES**

The work required for a master's degree must be completed within six consecutive calendar years. Upon the recommendation of the department concerned, a graduate student may apply to the Academic Standards and Curriculum Committee for permission to take a special examination, or the current semester final examination in courses for which graduate credit has been recorded and is obsolete. A copy of the results of the examination, which shall be prepared, given, and graded by the department, shall be filed in the Graduate Office. Unless a grade of B or higher is obtained in the examination, the student shall be required to take additional work, the amount and nature of which will be determined by the major adviser and the Graduate Dean. 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 either 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 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.

The above quality of work standards also apply to non-degree students.

A student, upon consent of his adviser, may repeat a course in which he has previously received a 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 should recognize that many courses depend upon regular class attendance, not to the extent that students are graded solely upon that factor, but in the sense that interaction between student and instructor is a necessary learning procedure. In the absence of his instructor in order to make up any work missed. The Board of Regents in its policy statement on 'The Student in the Academic Community' has declared: 'The faculty determines the character of courses which includes content, instructional and grading procedures. Students shall be informed of these matters at the beginning of the course.

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 work. Graduate assistants are considered full-time students if they carry a minimum of six hours of course work. Students carrying less than twelve hours may obtain a regular students activities card by paying the full-time fee of $30.00.

COURSES FOR GRADUATE CREDIT

Courses which are available for graduate credit are those which have been especially approved by the Graduate Faculty with syllabus 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 many as six semester hours of credit on a thirty-six hour program, or nine semester hours of credit on a thirty-six hour program provided the courses are pertinent to the student's graduate program. Normally the total hours of transfer credit may not exceed the number stated.

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 six-year period allowed for the Master's degree. Petitions for transfer of credit are submitted by the student to his major adviser who forwards the petition with his recommendation to the Graduate Dean for his approval.

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 Inter campus 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.

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.
5. 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), an application for admission form (and the ATGSB scores if applicable) with the Director of Admissions. You will be notified by mail of your admission to the Graduate College.
2. Arrange to take the Graduate Record Examination in Room 213, Administration Building. If you have previously taken the examination, have the scores sent to the Graduate Office.
3. Arrange your class schedule with your adviser and have him sign your registration slip.
4. Pay a $10 matriculation fee at the time of your initial enrollment in the Graduate College.
5. Apply for admission to candidacy for the degree in accord with the procedure described above.
6. 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.)
7. Inform your adviser at the time of your final enrollment that you wish to sit for the comprehensive examination (provided your department is not one of those who administer the comprehensive examination earlier in the program).
8. Notify the Graduate Office at the time of your final enrollment of your intention to graduate at the end of the semester so that your graduate record may be compiled.
9. If you are writing a thesis, make arrangements with your department for the oral examination 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. The scheduling of oral examinations during the summer sessions will be contingent upon the availability of appropriate members of the Graduate Faculty.
10. 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, or in accordance with delayed billing schedules. Students availing themselves with the delayed billing option must familiarize themselves with the due dates, as published. Note! Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor the late payment penalties. Students in need of financial aid must consult the Student Financial Aid Officer in room Administration 240. Application for financial aid should be made at the earliest possible time.

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

Application Fee: (Undergraduate)
The application fee is payable at the time the application for admission is filed. This fee is non-refundable, and does not apply toward tuition, or any other fee. Residence is determined by the student at the time the form is filed.
Resident of Nebraska $10.00
Non-resident 25.00

Graduate College Matriculation Fee:
Payable upon enrollment in the Graduate College 30.00

Tuition, Undergraduate and Graduate:
Resident of Nebraska—per credit hour 10.00
Non-resident—per credit hour 17.00

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 credit hour $10.00
Two credit hours $15.00
Three credit hours 20.00
Non-credit, 8 lessons 45.00
Non-credit, 16 lessons 65.00

Conference, 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) 25.00

General fees are assessed to every student each semester, except that summer session students who complete registration for both sessions at the initial registration period will be assessed the fee only once.

A portion of the general fee has been earmarked by the Board of Regents for the support of the Student Activities. The Chancellor, the Vice Chancellor for Educational and Student Services, and the Director of Business and Finance of the University, with the advice and recommendation of the Student Activities Budget Commission, will establish budget authorization and administer expenditure practices in accordance with Regents' policies which apply to all funds collected by the University in the name of the Board of Regents of the University of Nebraska. The full-time fee of $30.00 also entitles the student to a regular student activities card covering athletics, publications and general student activities. Part-time students may obtain a regular student activities card by paying the full-time fee of $30.00.

Special Services Fees:
Cooperative Education (if taken for non-credit) 50.00
Continuing Engineering Studies—Professional Studies 12.00
Development Degree Program 25.00
Initial application 25.00
Attainment of 300 credit units (additional) 25.00
Attainment of 600 credit units (additional) 25.00
Attainment of 900 credit units (additional) 25.00
Attainment of 1200 credit units (additional) 25.00
Deferred Tuition Payments 25.00
Deferred tuition payments (if approved by Student Financial Aid Office) 25.00
Credit Rating—per copy 2.00
Non-Credit Rating—per copy 2.00
Thesis Binding—per copy 1.00
Cap and Gown Rental (to be arranged through the Bookstore) 10.00

Refunds:
Refunds are possible only if the Board of Regents makes the refund. Refunds are possible only if the Board of Regents makes the refund. Refunds are possible only if the Board of Regents makes the refund. Refunds are possible only if the Board of Regents makes the refund. Refunds are possible only if the Board of Regents makes the refund.
Vacancy Bulletin Fee & Postage Cost

3rd class mailing .......................... 5.00
1st class mailing .......................... 12.50

The vacancy bulletin will not be mailed unless the registration fee is paid.

Credential Fee
Preparation of credentials No refund
No credentials will be sent unless the registration fee and the credential fee has been paid.

Late Fees and Penalties:

Late Registration (day or evening classes) .......................... 5.00
Late Examination (each course) .................... 5.00
Late Payment of Tuition Billing .......................... 10.00
Reinstatement of Withdrawal .......................... 10.00
Replacement of ID/Activity Card .......................... 5.00
Change of Class Schedule (per change) .................... 5.00

Deposits:
Key—(per key with authorization)—refundable .......................... 1.00
Pre-registration—variable dependent on hours enrolled

The pre-registration deposit allows the student to register in advance for the next term, and will apply toward tuition for completed registration. The deposit for fall term will be refunded in full provided application for refund is processed before the first day of the published date for fall term for on-campus registration.

Testing Fees:
Credit by examination—per course .................... 25.00
American College Testing (ACT)—on scheduled dates .................... 6.50
ACT additional charge, if specially scheduled .................... 4.00
College Level Examination Program (CLEP)—at national rates

There will be no additional charge to record any academic credit granted from the results of the CLEP examinations. Anyone interested in testing for credit by examination should contact the Counseling and Testing Office, Room 213, Administration Building.

Counseling and Testing:
 Generally, no fees are charged to U.N.O. students for this service.

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. See policy entitled “Withdrawal from Classes.”

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

| Withdrawal before first official day of the semester | 100% |
| Withdrawal before 2 weeks elapsed | 75% |
| Withdrawal before 3 weeks elapsed | 50% |
| Withdrawal before 5 weeks elapsed | 0 |

SUMMER SESSIONS (5 WEEK SESSION)

| Withdrawal before first official day of each session | 100% |
| Withdrawal during 1st three days | 75% |
| Withdrawal during remainder of 1st week | 50% |
| Withdrawal during 2nd week | 0 |

CREDIT COURSES (6 WEEK SESSION)

EVENING, SUMMER OR SPECIAL CONTRACT

| Withdrawal before first official day of each session | 100% |
| Withdrawal before 1st week elapsed | 75% |
| Withdrawal before 2 weeks elapsed | 50% |
| Withdrawal before 3 weeks elapsed | 0 |

NON-CREDIT AND SPECIAL COURSES

(10 or More)

| Withdrawal before classes start | 100% |
| Withdrawal before 1st week elapsed | 75% |
| Withdrawal before 2 weeks elapsed | 50% |
| Withdrawal after 3 weeks elapsed | 0 |

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

Master of Social Work

The Master's degree in social work is a professional degree which trains practitioners in developing skills for responsible practice in a wide variety of social service roles and settings.
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.
Assistant Professor Henry Serenco.

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

813M Advanced Sculpture
PREREQ: Art 331 and permission
Advanced work in area of student's choice, with facilities for oxy-acetylene, arc welding, and general metal working.
3 hours

814M Advanced Painting
PREREQ: Art 331 and permission
Practical instruction in oil painting and related media. The course gives the student the time and opportunity to develop individuality. A strong emphasis is placed on a complete knowledge of contemporary art.
3 hours

815M Advanced Printmaking
Intaglio process stressing technical proficiency in the various media.
3 hours

821M Advanced Ceramics
PREREQ: Art 331 and permission
Advanced problems in the techniques of ceramics.
3 hours

831V Graduate Sculpture
PREREQ: Art 431 and permission
Advanced problems in a particular sculpture media.
3 hours

841V Graduate Painting
PREREQ: Permission and 12 credit hours of painting
More complex problems in the oil medium and related material.
3 hours

851V Graduate Printmaking
PREREQ: Art 431 and permission
Advanced problems in the printmaking area with particular attention to the intaglio technique.
3 hours

UNIVERSITY OF NEBRASKA AT OMAHA

BIOLOGY (BIOL)

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

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. GRE (advanced and aptitude) is required.

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, bryology, ecology, embryology, entomology, ichthyology, invertebrate zoology, microbiology, ornithology, plant anatomy, plant biosystematics, plant morphology, plant physiology, vertebrate systematics, herpetology, biology of vertebrate reproduction, and vertebrate anatomy.

The candidate must pass a final oral examination.

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.
4 hours

841L 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.
4 hours

851L Flora of the Great Plains
PREREQ: Biology 145
The classification, identification, and recognition of common vascular plants, including weeds, ornamentals, and indigenous plants, found in the Great Plains.
3 hours
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>854M</td>
<td>Taxonomy of Vascular Plants</td>
<td>4 hours</td>
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<tr>
<td>PREREQ:</td>
<td>Biology 145</td>
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<td></td>
<td>Classification of vascular plants with particular</td>
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<td>emphasis on the evolution and adaptations of</td>
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<td>selected families with discussion of experimental</td>
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<td></td>
<td>techniques used by the taxonomist.</td>
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<tr>
<td>864M</td>
<td>General Bacteriology</td>
<td>4 hours</td>
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<tr>
<td>PREREQ:</td>
<td>Biology 145, organic chemistry, or permission</td>
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<td></td>
<td>The nature of microorganisms, their life processes,</td>
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<td></td>
<td>their biologic and economic significance.</td>
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<tr>
<td>872M</td>
<td>Experimental Endocrinology</td>
<td>2 hours</td>
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<tr>
<td>PREREQ:</td>
<td>A course in endocrinology or concurrent registration in Biology 872M, or permission of instructor.</td>
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<td></td>
<td>Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience.</td>
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<tr>
<td>873M</td>
<td>Endocrinology</td>
<td>3 hours</td>
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<tr>
<td>PREREQ:</td>
<td>Organic Chemistry, Vertebrate Anatomy, and Physiology or permission of the instructor.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A survey of endocrine physiology stressing the</td>
<td></td>
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<tr>
<td></td>
<td>regulative and integrative roles of hormones,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the control of hormone secretion, and mechanisms</td>
<td></td>
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<tr>
<td></td>
<td>of hormone action.</td>
<td></td>
</tr>
<tr>
<td>838M</td>
<td>Ichthyology</td>
<td>4 hours</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>Biology 175</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A study of the subphylum Vertebrata including</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the morphology, anatomy, physiology, and ecology of vertebrate representatives.</td>
<td></td>
</tr>
<tr>
<td>860M</td>
<td>Invertebrate Zoology</td>
<td>4 hours</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>Biology 175</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A field-oriented course emphasizing the taxonomy and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>natural history of the invertebrate animals.</td>
<td></td>
</tr>
<tr>
<td>894M</td>
<td>Entomology</td>
<td>4 hours</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>Biology 175</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The mechanisms involved in the process.</td>
<td></td>
</tr>
<tr>
<td>898M</td>
<td>Ornithology</td>
<td>4 hours</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>Biology 175</td>
<td></td>
</tr>
<tr>
<td></td>
<td>An introduction to the general biology of birds,</td>
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<tr>
<td></td>
<td>including their anatomy, physiology, behavior,</td>
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<tr>
<td></td>
<td>ecology, classification, and identification with</td>
<td></td>
</tr>
<tr>
<td></td>
<td>emphasis on North American groups.</td>
<td></td>
</tr>
<tr>
<td>801V</td>
<td>Seminar in Biology</td>
<td>1 hour</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>A study of current research in any of the divisions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of biology. Graduate students in biology must complete</td>
<td></td>
</tr>
<tr>
<td></td>
<td>this course twice for credit.</td>
<td></td>
</tr>
<tr>
<td>802V</td>
<td>Problems in Biology</td>
<td>2 hours</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>Sufficient work in biology and the ancillary</td>
<td></td>
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<tr>
<td></td>
<td>sciences necessary to pursue adequately the area</td>
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<tr>
<td></td>
<td>of investigation involved.</td>
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<tr>
<td></td>
<td>Research investigation in various areas of biology.</td>
<td></td>
</tr>
<tr>
<td>815V</td>
<td>Environmental Biology</td>
<td>3 hours</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>Graduate standing in Biology and/or permission of</td>
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<tr>
<td></td>
<td>instructor. A study of the recent advancements in</td>
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<tr>
<td></td>
<td>environmental biology, concentrating on the areas</td>
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<tr>
<td></td>
<td>of population dynamics, community interaction and</td>
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<tr>
<td></td>
<td>ecosystems theory. Readings, discussions,</td>
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<td></td>
<td>laboratory, and a written report.</td>
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</tr>
<tr>
<td>816V</td>
<td>Experimental Genetics</td>
<td>3 hours</td>
</tr>
<tr>
<td>PREREQ:</td>
<td>Biology 244</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lecture and laboratory involving experimentation with</td>
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<tr>
<td></td>
<td>organisms such as Drosophila spp., Neurospora spp.,</td>
<td></td>
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<tr>
<td></td>
<td>E. Coli and T4 phage.</td>
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</tbody>
</table>

**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.

**855L 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 study 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.

**894L 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.

**816M 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 fresh water 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.

**827M Animal Behavior (same as Psychology 827M)**

**PREREQ:** Biology 175 and 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.

**833M Bryology**

**PREREQ:** Biology 301 or permission of the instructor

A course in the identification, classification, ecology, and distribution of bryophytes.

**834M Ichthyology**

**PREREQ:** Biology 175

A study of the biology of fishes, including their evolution, anatomy, physiology, ecology, distribution, classification and identification with emphasis on North American freshwater fishes.

**842M Mycology**

**PREREQ:** Biology 145

A lecture and laboratory course in the collection, cultivation, identification and life cycle of fungi.

**844M Plant Physiology**

**PREREQ:** Biology 145, organic chemistry, or permission of the instructor

A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism, and mineral nutrition.
BUSINESS ADMINISTRATION (BA)

Graduate Faculty Members:
Associate Professors Origen J. James, Yousef I. Koutby, David Sirota, R. Wayne Wilson;
Assistant Professors Bruce A. Kirchoff, Richard F. Ortman, Stephen P. Robbins

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:

- Economics
- Corporation Finance
- Accounting (2 courses)
- Statistics
- Marketing
- Business Law, or
- Management
- Legal Environment of Business

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. Econ 800L; the foundation courses cannot be used to meet the 36 semester hours required for the M.B.A. degree. The quality of work in the foundation core should be the same as for degree requirements. A "B" average must be maintained, a final grade of "A" in two courses will require action by the MBA committee before the student is permitted to recrnull, and a grade of "C" in a third course or a grade of "D" or below in any course will result in automatic dismissal from the MBA program.

The Admission Test for Graduate Study in Business is required and scores must accompany any application for admission.

To be admitted to the MBA program, applicants should have a minimum undergraduate grade point average of 3.0, minimum of 2.75 in undergraduate courses in the foundation core (A-F), and a minimum of 470 on the Admission Test for Graduate Study in Business.

Degree Requirements: The degree requires a minimum of 36 semester hours for completion. Of these, 12 must be in the following required courses:

- Econ 821L Micro-Economic Theory
- Econ 831L Macroeconomic Theory
- BA 840V Marketing Policies
- BA 830V The Environment of Management
- BA 850V Financial Management
- BA 855V Accounting for Management Control

or

- BA 821V Accounting Theory
- BA 840V Quantitative Analysis
- BA 890V Business and Society
- BA 831V Human Behavior in Organizational

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 892V Research Methods in Business
- BA 861V Business Information Systems
- BA 805V Business Conditions Analysis
- BA 825V Seminar in Accounting
- BA 835V Seminar in Management
- BA 841V Promotional Policies
- BA 845V Seminar in Marketing
- BA 851V Security Analysis
- BA 802V Seminar in Investment Management
- BA 855V Seminar in Finance
- BA 889V Independent Research

A thesis is not required for the degree. A written comprehensive final examination will be required near the end of the program.

Course Descriptions

811L Survey of Accounting
This course is for the graduate student who has not taken accounting principles at the undergraduate level.
The uses of accounting for purposes of control and decisions by managers, owners, creditors, and others.

812L The Legal Environment of Business
Examination of the business institution as it exists within a legal system shaped by societal elements.
813L Business Finance  
PREREQ: ACC 201 and ACC 202; or BA 811L and Econ. 201 and Econ. 202; or Econ 680V.  
The process of financing business from the viewpoint of management in planning, directing, evaluating, and taking remedial action in providing for the financial needs of the business firm.  
3 hours

814L Survey of Management  
PREREQ: Econ. 201 and 202; or Econ. 800V.  
A comprehensive study of the management process with particular emphasis given to the production, human, and organizational problems of industrial operations.  
3 hours

815L Marketing Foundations  
PREREQ: Econ. 201 and Econ. 202; or Econ. 800V. No previous marketing principles.  
This course will provide the student with a sound understanding of marketing institutions, functions, economic role, and administration. It will prepare the student for advanced work in marketing policies and research.  
3 hours

816L Statistics for Business Decisions  
PREREQ: BA 312 or College Algebra.  
Techniques of analysis and interpretation of quantitative business data; descriptive measures, statistical inference, correlation and time-series.  
3 hours

820V Quantitative Analysis  
PREREQ: BA 315 or BA 816L.  
The study of quantitative techniques and models and their application in business decision making.  
3 hours

821V Business and Society  
PREREQ: BA 323, BA 440 or BA 812L.  
Exploration of the diversity of societal forces and pressures which produce continued transition in the system of American capitalism.  
3 hours

822V Research Methods in Business  
PREREQ: BA 816L or equivalent.  
A study of quantitative research techniques most often used in business research. The student will become familiar with current research studies in the functional areas of business.  
3 hours

823V Business Information Systems  
PREREQ: BA 101 or equiv.  
This course is intended to provide students in business with an understanding of how computer-based information systems are constructed and of the opportunities and problems associated with this activity.  
3 hours

824V Business Conditions Analysis  
PREREQ: Econ 800V or Econ 202.  
This course is concerned with the measurement and evaluation of general business conditions, and the adaptation of business policies to changing business conditions. Emphasis is placed upon the practical application of the techniques of analysis to the current business situation.  
3 hours

825V Accounting for Management Control  
PREREQ: ACC 201 and ACC 202; or BA 811L.  
Emphasis on maximum utilization of accounting information by management.  
3 hours

826V Accounting Theory  
PREREQ: BA 800V.  
3 hours

827V Seminar in Accounting  
PREREQ: BA 800V or BA 812V.  
A study of problem areas which may be independent or interrelated in public, private, and governmental accounting.  
3 hours

828V The Environment of Management  
PREREQ: MGT 340 or BA 84L.  
A classical and behavioral study of the organizational environment in which decision-making occurs to accomplish the economic and efficient operation of organized endeavor.  
3 hours

831V Human Behavior in Organization  
PREREQ: BA 349 or BA 84L.  
An inter-disciplinary study concerned with the problems of combining and utilizing human resources to satisfy the objectives of management and workers.  
3 hours

832V Seminar in Management  
PREREQ: BA 680V and BA 831V.  
A student participation course emphasizing current issues and problems in contemporary management theory and operation.  
3 hours

834V Marketing Policy and Analysis  
PREREQ: MKT 331 or BA 815L.  
A marketing management approach to the determination of policies employed in solving problems in marketing.  
3 hours

835V Promotional Policies  
PREREQ: MKT 331 or BA 815L.  
Analysis of the methods and policies needed to develop and administer an effective promotional program.  
3 hours

836V Seminar in Marketing  
PREREQ: BA 680V.  
Exploration, study, and critical analysis of contemporary marketing problems, trends, methods and approaches for seminar discussion and written report.  
3 hours

839V Financial Analysis  
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.  
3 hours

841V 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.  
3 hours

842V 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.  
3 hours

843V Seminar in Finance  
PREREQ: BA 850V.  
Selected topics from areas of business finance.  
3 hours

844V Independent Research  
PREREQ: FIN 325 or BA 813L.  
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.  
3 hours

CHEMISTRY (CHEM)

Graduate Faculty Members:  
Professors C. Robert Keppel, Walter W. Linstromberg, D. N. Marquardt (Chairman), Paul J. Stageman;  
Associate Professor Roger Hoburg;  
Graduate chemistry courses are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.  

Course Descriptions

835L Physical Chemistry  
PREREQ: Chemistry 225, 225L, 240, 260L; Physics 212; Math 198.  
A presentation of selected topics from the areas of quantum mechanics, classical thermodynamics, statistical mechanics.
### 84DL Physical Chemistry Laboratory
**PREREQ:** Chemistry 326, 326L, 340, 340L; Physics 212; Math 199. Chemistry 335L should be taken concurrently with Chemistry 336.

### 83L Physical Chemistry
A presentation of selected topics from the areas of classical thermodynamics, statistical mechanics and chemical kinetics.

### 83L Physical Chemistry Laboratory
**PREREQ:** Chemistry 336L should be taken concurrently with Chemistry 336.

### 840L Instrumental Analysis Laboratory
**PREREQ:** Chemistry 336L (may be taken concurrently).

### 840L Instrumental Analysis Laboratory
**PREREQ:** Chemistry 340L (may be taken concurrently)

### 83M Advanced Organic Chemistry
**PREREQ:** Chemistry 226, 336

### 83M Advanced Organic Chemistry
**PREREQ:** Chemistry 226, 336

### 85M Biochemistry
**PREREQ:** Chemistry 226, 336

### 85M Biochemistry Laboratory
**PREREQ:** Biochemistry Laboratory for Chemistry 865M. Chemistry 865M and 865M Lab must be taken concurrently.

### 85M Biochemistry Laboratory
**PREREQ:** Chemistry 85M, 865M Lab

### 89M Chemistry Problems
**PREREQ:** Permission of instructor

### 89V Research in Chemistry
**PREREQ:** Permission of the instructor, graduate standing and an undergraduate chemistry major (not less than 32 hours).

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### Course Descriptions

#### Civil Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>PREREQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>822M</td>
<td>Open Channel Flow</td>
<td>3 hours</td>
<td>Open standing and permission of instructor</td>
</tr>
<tr>
<td>833M</td>
<td>Hydrology</td>
<td>3 hours</td>
<td>GE 331</td>
</tr>
<tr>
<td>834M</td>
<td>Ground Water Hydrology I</td>
<td>3 hours</td>
<td>GE 331</td>
</tr>
<tr>
<td>842M</td>
<td>Construction Management</td>
<td>3 hours</td>
<td>Permission</td>
</tr>
</tbody>
</table>

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### 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 Systems 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
- 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 taken at the 800 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.

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### Graduation Faculty Members:

- Professors Joseph V. Benak, Richard E. Gibson, James Q. Hossack, Cheryl H. Frewett;
- Associate Professors Harold L. Davis, Bert Denny, Lawrence E. Ehlers, William B. LeMar, M. N. Reddy, Wilbur F. Rogers

---

### Department of Civil Engineering

- **Graduate Faculty Members:**
  - Professors Joseph V. Benak, Richard E. Gibson, James Q. Hossack, Cheryl H. Frewett;
  - Associate Professors Harold L. Davis, Bert Denny, Lawrence E. Ehlers, William B. LeMar, M. N. Reddy, Wilbur F. Rogers

- **Course Descriptions:**
  - **Civil Engineering**
    - 822M Open Channel Flow
    - 833M Hydrology
    - 834M Ground Water Hydrology I
    - 842M Construction Management
944M Structural Analysis III 3 hours
PREREQ: CE 344
Analytical methods in the design of industrial buildings, tall buildings and space frames.

850M Soil Mechanics II 3 hours
PREREQ: CE 440 or equivalent
Complex problems in soil mechanics, the relationship between theory, sampling and testing, performance studies.

853M Construction Cost and Controls 3 hours
PREREQ: Permission
Construction estimating, accounting, cost control, construction scheduling, computer applications.

857M Form Design and Steel Erection 2 hours
PREREQ: CE 320
Design of concrete forms; design of temporary structures for steel erection.

873M Prestressed Concrete 3 hours
PREREQ: CE 300
Design of prestressed members, continuous beams, slabs, and circular prestressing, load factors, ACI code.

873M Matrix Methods of Structural Analysis 3 hours
PREREQ: CE 344
Computer applications for beams, frames, trusses, grids, and space forms using flexibility and stiffness methods.

881M Plastic Analysis 3 hours
PREREQ: CE 300

882M Plastic Analysis II 3 hours
PREREQ: CE 415
Design of braced bents and unbraced bents for gravity and combined loads. Design checks and secondary considerations. Multi-story frames.

883M Urban Systems I 3 hours
PREREQ: Graduate standing and permission of the instructor
Concepts of the urban complex as a system which involves interplay between engineering systems and physical works on one hand, and sociological and economic factors on the other; influence of related disciplines on comprehensive plans for urban systems; engineering inputs to urban planning; engineering role in preparation and implementation of comprehensive urban plans.

890V Structural Design for Dynamic Loads 3 hours
PREREQ: Graduate standing and permission
Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques.

891V Special Engineering Problems 1-6 hours
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. These 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.

892V Thin Shell Structures 3 hours
PREREQ: Graduate standing and permission
General theory of thin shells; analysis and design of hyperbolic paraboloids, folded plates, cylindrical shells, shell walls, and domes.

896V Foundation Engineering 3-6 hours
PREREQ: Graduate standing and permission of instructor
Evaluation of subsoil conditions as they affect the behavior, proportions, bearing capacity and settlement analysis; seepage problems; stability of and selection of foundation elements; character of natural soil deposits; slopes and earth-retaining structures.
### 895M Advanced Fluid Mechanics
**PREREQ:** GE 493 or permission
Ideal and real fluid flow; Eulerian and Lagrangian equations of motion; potential theory; conformal transformations; turbulent flow; boundary layer theory.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>895M Advanced Fluid Mechanics</strong></td>
<td>3</td>
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</table>

### 812V Experimental Stress Analysis
**PREREQ:** GE 493 or permission
Investigation of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, lacquer, photo-elasticity and membrane analogy.

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>812V Experimental Stress Analysis</strong></td>
<td>3</td>
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</tbody>
</table>

### 819V Engineering Education Teachers
**PREREQ:** GE 493, CE 342, Math 235
Stresses, strains, Hooke's law and displacements, formulation of problems in elasticity, various methods of solution of two and three dimensional problems, thermal stresses, comparison with approximate solutions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>819V Engineering Education Teachers</strong></td>
<td>3-6</td>
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</tbody>
</table>

### 810V Applied Elasticity
**PREREQ:** GE 493, CE 342, Math 235
Stresses, strains, Hooke's law and displacements, formulation of problems in elasticity, various methods of solution of two and three dimensional problems, thermal stresses, comparison with approximate solutions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>810V Applied Elasticity</strong></td>
<td>3</td>
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</tbody>
</table>

### 817V Theory of Plates and Shells
**PREREQ:** GE 394, Math 235
Plates: Governing equations for the bending and stretching of thin plates and plates of various shapes with different boundary conditions by means of classical, energy and numerical methods; large deflection theory of thin plates, Shells: Membrane theory of barrel shells, domes, translation of double curvature; bending theory of domes, cylindrical; general theory of thin shells; analysis of thin, folded plates.

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>817V Theory of Plates and Shells</strong></td>
<td>3</td>
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</table>

### 813V Theory of Elastic Stability
**PREREQ:** GE 493, Math 235
Beam columns, elastic buckling of bars and frames, inelastic buckling of bars, torsional buckling, lateral buckling of beams, buckling of rings, curved bars and arches.

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>813V Theory of Elastic Stability</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

### 816V Similitude
**PREREQ:** Permission
The principles and illustrations of dimensional methods, similarity and model testing, similarity and dissimilar models. Applications to structures, fluid flow, heat transmission, electromagnetic theory, acoustics and chemical engineering, differential equations and similarity.

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>816V Similitude</strong></td>
<td>3</td>
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</tbody>
</table>

### 819V Engineering Vibrations
**PREREQ:** Math 235, Advanced Math for Engineers System with One Degree of Freedom; Systems with Non-Linear and Variable Spring Characteristics; Systems with Several Degrees of Freedom; Vibrations of Elastic Bodies.

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>819V Engineering Vibrations</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

### 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.

### 821M Contemporary Trends in Industrial Education for the World of Construction
**PREREQ:** Graduate standing
Introduction to a new program development in industrial education, with major emphasis placed on the World of Construction curriculum. Analysis of basic construction operations and management practices utilized in industry and adapts them as learning units for the junior high industrial laboratory.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>821M Contemporary Trends in Industrial Education for the World of Construction</strong></td>
<td>2</td>
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</tbody>
</table>

### 822M Contemporary Trends in Industrial Education for the World of Manufacturing
**PREREQ:** Graduate standing
Introduction to a new program development in industrial education, with major emphasis placed upon the World of Manufacturing curriculum. Analysis of basic manufacturing operations and management practices utilized in industry and adapts them as learning units for the junior high industrial laboratory.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>822M Contemporary Trends in Industrial Education for the World of Manufacturing</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

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### ECONOMICS (ECON)
Graduate Faculty Members:
The Frederick W. Keyser Professor Elroy J. Steele (Chairman);
Associate Professors Donald A. Nielsen, Justin D. Stolen, Keith K. Turner;
Assistant Professors Loisjean Drake, James L. Joy, Robert McCune

### 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 15 hours of the required 36 hours must be approved at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, 829V and 845V.

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

#### 800L Analytical Foundations of Economics
Fundamental principles of macro and micro economic theory for Graduate Students in Business. The development of modern aggregate theory is examined and an economic analysis of the business firm, its market structure, production possibilities, and cost factors undertaken.

**PREREQ:** Econ 215  
**PHREREQ:** Econ 315  
**II** 3 hours

#### 811M Government and Labor
Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

**PREREQ:** Econ 215  
**II** 3 hours

#### 812M Urban Geography (Same as Geography 812M)
Provides a background of knowledge and understanding of the development of urban geography, the regulation of land use by government and the relationship of the various levels of government to labor.

**PHREREQ:** Econ 813M  
**II** 3 hours

#### 813M Geography of Manufacturing (same as Geo, 813M)

**PHREREQ:** Econ 813M  
**II** 3 hours

#### 814M Collective Bargaining
A study of the issues, structures and procedures involved in collective bargaining, and the settlement of disputes, as centered around the labor-management contract.

**PHREREQ:** Econ 215  
**II** 3 hours

#### 821M Advanced Firm and Industry Theory
The effects of changes in conditions of supply and demand under alternative market structures affecting firm and industry are examined. General equilibrium and welfare economics are introduced.

**PHREREQ:** Econ 215  
**II** 3 hours
ECONOMICS

825M Advanced Macro Theory
PREREQ: Econ 302
A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical developments and various arguments and propositions. Special attention will be given, especially through student research, to programs aimed at reducing urban poverty.

826M History of Economic Thought
(Medieval through Classical Period) PREREQ: Econ 201, 202
Tracing the evolution of economic thought from the Medieval through the Classical period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.

827M History of Economic Thought
(Classical to Modern Period) PREREQ: Econ 201, 202
Tracing the evolution of economic thought from the Neo-classical to the contemporary period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.

830M Econometrics
PREREQ: BA 313, Econ 201 and 202 or equivalent
Introduction to the study and application of modern statistical and mathematical methods to economic models.

835M Comparative Economic Philosophy
PREREQ: Econ 320
The mainstays of political and economic philosophy are examined in order to understand both the political basis of comparative economic systems as well as to judge the political consequences of changing economic policy. The emphasis is prior to the twentieth century.

837M Contemporary Economic Philosophy
PREREQ: Econ 322
A continuation of Economics 436 with emphasis upon contemporary writers and thinkers.

843M Geography of Manufacturing (same as Geography 942M)
3 hours

845M Monetary Theory and Policy
PREREQ: Econ 345
Mathematical methods to economic models.

855M State and Local Finance
PREREQ: Econ 301 and 302
An inquiry into the facts, techniques, principles, theories of state and local government. Emphasis will be given to the measurement of theoretical concepts, and its environments, with emphasis on money, employment, income and prices. Emphasis is on contemporary problems.

866M International Economic Development
PREREQ: Econ 301-302
Problems related to early stages of economic development: investment priorities, mobilizing savings and policies and programs are studied.

880M Managerial Economics
PREREQ: Econ 320
Economics applied in decision making, with special emphasis on application of the micro theory. It aims to bridge the gap between theory and managerial practice, stressing the measurement of theoretical concepts.

895V Economic Education
PREREQ: Econ 805V
A study and an in-depth examination of selected economic topics and their relation to citizens, students, teachers, community and society.

897V Economic Education Institute
PREREQ: Permission by Director of the Institute
A study and an in-depth examination of selected economic topics and their relation to citizens, students, teachers, community and society.
EDUCATIONAL FOUNDATIONS (FED)

Graduate Faculty Members:
G. Wayne Glidden (Chairman);
Professor Joseph G. Dunn;
Associate Professors Eugene Freund, Blaine Ward

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

101M Mental Health
A general survey of principles of mental health; a study of social and emotional adjustments. (I, II, S) 3 hours

102M Principles of Adult Education
An introduction to the study of adult education as a major development in contemporary America. The course surveys the major forms and problems of adult education and the foremost providers of programs. (I, II, S) 3 hours

103M Adult Group Leadership
A study of adult groups in modern society and the characteristics of effective leadership in all types of groups. (I, II, S) 3 hours

105M Audio-Visual Materials in Education
A basic course in the selection, care, organization and utilization of materials and equipment of instruction. (I, II, S) 3 hours

106M Preparation of Instructional Material
An introduction to the study of audio-visual materials for the classroom, graphic, photographic and auditory materials are considered, including such instructional material as slides, films, dramatization and exhibits. (I, II, S) 3 hours

107M Administration of the Instructional Materials Center
A course designed to help students develop a basic understanding of child growth and development and learning problems of disadvantaged children and youth. (I, II, S) 3 hours

108V Special Studies
A series of intensive courses especially for teachers in service—scheduled as regular seminars, or workshops, according to purpose. (I, II, S) 3 hours

109V Production to Research
An intensive study of 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. (I, II, S) 3 hours

110V History and Philosophy of Education
A study of selected topics involving principles, problems, trends and materials in audio-visual education. A study of selected topics involving principles, problems, trends and materials in audio-visual education. (I, II, S) 3 hours

111V 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. (I, II, S) 3 hours

112V Research Project
Individual or group study and analysis of specific problems in schools. (I, II, S) 3-6 hours
### ELEMENTARY AND EARLY CHILDHOOD EDUCATION (EED)

Graduate Faculty Members:
- Professors Robert L. Ackerman (Chairman), Hollie Bethel, Helen Howell;
- Assistant Professors Irene Hoover, Mary J. Lickteig

#### 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 will be expected to take selected courses in areas outside the field of elementary education as indicated in the following program outline.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Selected Cognate Courses</td>
<td>6-9</td>
</tr>
<tr>
<td>II. Required Courses</td>
<td>21</td>
</tr>
<tr>
<td>FED 801V, Introduction to Research</td>
<td></td>
</tr>
<tr>
<td>FED 802V, Philosophy and History of Education</td>
<td></td>
</tr>
<tr>
<td>EED 810V, Diagnostic and Corrective Instruction</td>
<td></td>
</tr>
<tr>
<td>EED 840V, Innovations and Trends in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>EED 841V, Introduction to Curriculum Planning—Elementary</td>
<td></td>
</tr>
<tr>
<td>EED 842V, Seminar in Elementary Education</td>
<td></td>
</tr>
<tr>
<td>EDAD 846V, Administration and Supervision in Elementary Schools</td>
<td></td>
</tr>
<tr>
<td>III. Selected Courses</td>
<td>6-9</td>
</tr>
<tr>
<td>To be determined by student and his adviser</td>
<td></td>
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</tbody>
</table>

#### Course Descriptions

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>120M Literature for Children and Youth</td>
<td>(1, II, S) 3 hours</td>
</tr>
<tr>
<td>Selection, evaluation, and guidance in various types of literature for the</td>
<td></td>
</tr>
<tr>
<td>elementary and junior high school levels.</td>
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</tr>
<tr>
<td>127M Current Trends in Early Childhood Education</td>
<td>3 hours</td>
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<tr>
<td>A survey of the problems involved in setting up and implementing a program</td>
<td></td>
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<td>for the child from birth to eight years of age. Recent trends will</td>
<td></td>
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<tr>
<td>be investigated as they apply to the above activity.</td>
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</tr>
<tr>
<td>800V Special Studies</td>
<td>(1, II, S) 3 hours</td>
</tr>
<tr>
<td>A series of intensive courses especially for teachers in service-schedu-</td>
<td></td>
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<tr>
<td>cled as regular seminars, or workshops, according to purpose.</td>
<td></td>
</tr>
<tr>
<td>810V Research Project</td>
<td>(1, II, S) 1-3 hours</td>
</tr>
<tr>
<td>Individual or group study and analysis of specific problems in schools.</td>
<td></td>
</tr>
<tr>
<td>819V Diagnostic and Corrective Instruction</td>
<td>(1, II, S) 3 hours</td>
</tr>
<tr>
<td>A study of methods of diagnosing children's difficulties in all subject</td>
<td></td>
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<tr>
<td>areas of the educational program of the elementary school and corrective</td>
<td></td>
</tr>
<tr>
<td>techniques for overcoming such problems.</td>
<td></td>
</tr>
<tr>
<td>820V Improvement of Instruction in Elementary Science</td>
<td>3 hours</td>
</tr>
<tr>
<td>This course is designed for graduate students in education who wish to</td>
<td></td>
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<tr>
<td>become better informed about the recently developed programs for</td>
<td></td>
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<tr>
<td>elementary science; the methods, materials, philosophy, and emphasis in</td>
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<tr>
<td>instruction, which are characteristic of these programs.</td>
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</tr>
</tbody>
</table>

#### University of Nebraska at Omaha

- **EED 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.

- **EED 824V Seminar in Elementary Education**
  - 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.

- **EED 825V Seminar in Supervision of Student Teachers—Elementary**
  - 3 hours
  - PREREQ: 2 years of teaching experience
  - Designed for experienced teachers who are or may be serving as cooperating teachers, and who desires to study student teaching, its aims, procedures, objectives, trends and developments.

- **EED 870V Practicum in Elementary Education**
  - 3-6 hours
  - PREREQ: Permission of adviser 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 baccalaureate 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.)

- **EED 871V Advanced Practicum in Elementary Education**
  - 3 hours
  - PREREQ: Permission of adviser and of ad hoc committee for non-certified
  - Satisfactory completion of EED 870V, Practicum in Elementary Education
  - Advanced practicum will demand an increased responsibility of the student for one semester and a concomitant increase in variety of experiences, based upon the 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).

#### SECONDARY EDUCATION (SED)

Graduate Faculty Members:
- Professors Paul Ackerson, Raymond A. Ziebarth (Chairman);
- Associate Professors M. Jean Bressler, Barbara L. Brillhart, Dale M. Bunsen, Donald J. Grandgenett, Edward J. Sadler
- Assistant Professor Michael J. Rockler

Programs in Secondary Education are developed on an individual basis by the student and his adviser. They are designed to extend academic background the instructional skills of secondary school teachers.

To pursue degree work in the Department, students must hold a valid secondary teaching certificate. During the first semester of enrollment, students must take the Graduate Record Examination including the Advanced Test in Education. To be admitted to candidacy the combined
scores on the Verbal, Quantitative, and Advanced GRE Tests must total at least 1200. Students are expected to file their Application for Candidacy before they complete more than 18 hours of graduate work and more than 18 hours of completed course work may be included in the proposed program of graduate studies.

Students who seek the Master of Science Degree must take a written Comprehensive Examination. This examination may not be taken earlier than the semester or summer session in which the last course of the program of studies will be completed. Registration for this examination must be made with the Department not later than the end of the eighth week of the semester in which the examination will be taken. If the examination is to be taken during the summer, registration must be completed by the end of the third week of the first summer session.

Master of Science

Students seeking the Master of Science Degree in Secondary Education are required to select course work from the five areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. Course names or types included in each area are indicated where appropriate.

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. SED Core</td>
<td></td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>SED 825V-Seminar in Secondary Education</td>
<td></td>
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<tr>
<td>SED 830V-Emerging School Curriculum</td>
<td></td>
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<tr>
<td>SED 833V-Analyses of Teacher Behavior</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II. Research</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Research Methods, Statistical Methods, Tests &amp; Measurements</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>III. Professional Specialization</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Seminars, Independent Research, Special Studies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV. Related Professional Courses</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>V. Related Academic Courses</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Master of Arts

Students seeking the Master of Arts Degree in Secondary Education are required to select course work from six areas indicated below. Minimum and maximum hours that must be included from each area are indicated when such limits are applicable. Course names or types included in each area are indicated where appropriate.

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. SED Core</td>
<td></td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>SED 825V-Seminar in Secondary Education</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SED 830V-Emerging School Curriculum</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SED 833V-Analyses of Teacher Behavior</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II. Research</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Research Methods, Statistical Methods, Tests &amp; Measurements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III. Professional Specialization</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Seminars, Independent Research, Special Studies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV. Related Professional Courses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V. Related Academic Courses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VI. Thesis</td>
<td></td>
<td>0</td>
<td>6</td>
</tr>
</tbody>
</table>

*Minimums or maximums are determined by advisor.

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**Course Descriptions**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>880M</td>
<td>Principles of Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>885M</td>
<td>Coordination Techniques for Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>880V</td>
<td>Special Studies</td>
<td>3</td>
</tr>
<tr>
<td>880V</td>
<td>Education Project</td>
<td>3</td>
</tr>
<tr>
<td>915V</td>
<td>Practicum Teaching-Community and Junior College</td>
<td>3</td>
</tr>
<tr>
<td>815V</td>
<td>Seminar in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>825V</td>
<td>Intensive course for students</td>
<td>3</td>
</tr>
<tr>
<td>825V</td>
<td>Emerging School Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>825V</td>
<td>The Junior High School</td>
<td>3</td>
</tr>
<tr>
<td>825V</td>
<td>Analysis of Teacher Behavior</td>
<td>3</td>
</tr>
<tr>
<td>825V</td>
<td>Improvement of Instruction of Secondary School Speech</td>
<td>3</td>
</tr>
<tr>
<td>825V</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>840V</td>
<td>Improvement of Instruction in English: Language and Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>841V</td>
<td>Improvement of Instruction in Social Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

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**Grading and Course Work**

Grading and course work are determined by the instructor. The University of Nebraska at Omaha offers a variety of courses in the Graduate Bulletin. Students must complete a minimum of 18 hours of course work at the University of Nebraska at Omaha to receive a degree. The University of Nebraska at Omaha offers both full-time and part-time study options.

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**Graduate Bulletin**

The Graduate Bulletin is published annually and contains information about the University of Nebraska at Omaha, including admission requirements, degree programs, course descriptions, and scheduling information. Students are encouraged to consult the Graduate Bulletin for the most up-to-date information.
847V Materials Laboratory for the Social Studies
- Designed to acquaint social studies teachers with new materials in the
  Social Studies. Students will develop criteria for the evaluation of
  materials from recent curriculum projects.

850V Improvement of Instruction of Secondary School Mathematics
- 3 hours
  This course is designed for those students who wish to extend their
  knowledge of the secondary school mathematics curriculum and their
  skill in employing instructional techniques for teaching mathematics.
  Emphasis is placed upon new curriculum developments and contempo-
  rary teaching strategies.

852V Foundations in Business Education
- 3 hours
  Designed to develop a deeper and broader understanding of business
  education - its identity and defines business education and to examine
  its past, present, and future role in the total education pattern of our
  country in today's world.

855V Improvement of Instruction of Secondary School Science
- 3 hours
  This course is designed for graduate students in education who wish
  to become better informed about the recently developed programs for
  elementary science; the methods, materials, philosophy, and emphasis
  and instructional techniques which are characteristic of these programs.

856V Improvement of Instruction of Secondary School Science
(yellow)
- 3 hours
  For students who wish to become better informed about the nature
  of recently developed programs in the various areas of the curriculum.
  Special attention is given to the methods, materials, philosophy, and
  instructional techniques characteristic of these programs. Each offering
  will be devoted to a particular area as indicated when scheduled.

857V Improvement of Instruction of Secondary School Science
(green)
- 3 hours
  For students who wish to become better informed about the nature
  of recently developed programs in the various areas of the curriculum.
  Special attention is given to the methods, materials, philosophy, and
  instructional techniques characteristic of these programs. Each offering
  will be devoted to a particular area as indicated when scheduled.

860V Improvement of Instruction of Science, Harvard Project Physics
- 3 hours
  A graduate course in science education which reviews the content,
  method, materials, and philosophical background of Harvard Project
  Physics.

862V Improvement of Instruction of Science, Earth Science Curriculum
  Project
- 3 hours
  A graduate course in science education which reviews the content,
  method, materials and philosophical background of the Earth Science
  Curriculum Project.

865V Science Education Seminar
- 3 hours
  A graduate seminar in K-12 science education emphasizing research,
  newly developed science curricula, curriculum planning, science super-
  vision and treatment of one or more localized science education issues.

870V Improvement of Instruction in Science, Harvard Project Physics
- 3 hours
  A continuation and extension of the concepts considered in SED 860V.

872V Improvement of Instruction in Science, Earth Science Curriculum
  Project
- 3 hours
  A continuation and extension of the concepts considered in SED 865V.

875V Improvement of Instruction in Secondary School Business Education
- 3 hours
  A course designed for teachers of business education to provide infor-
  mation, methods, and techniques relative to current practices and trends
  in business education.

876V Problems of Vocational Business Education
- (S) 3 hours
  Designed for teachers of business education to develop a better under-
  standing 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 admin-
  istrators of vocational education. The course includes principles, needs,
  characteristics, and trends that should be considered in developing a voca-
  tional education curriculum.

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COUNSELING AND GUIDANCE (COUN)

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

Programs in Counseling and Guidance are arranged on an individual basis. Areas of frequent specialization, however, are Secondary School Counseling*, Elementary School Counseling*, Agency Counseling and Student Personnel Services. For interested students, an emphasis on Counseling with the Urban Disadvantaged may be developed within their program. It is also possible for students interested in Gerontology to develop this as an area of emphasis within their Counseling and Guidance Degree Program.

Required courses are determined in relation to the student's previous coursework, experience and anticipated work setting. Most programs however would fit within one of the general outlines given below.

Students are admitted and permitted to continue programs in Counseling and Guidance on the basis of their potential for successful training and professional practice.

The Counseling and Guidance Department has admissions requirements and procedures in addition to those applicable to the Graduate College as a whole, and prospective students are strongly encouraged to contact the Department regarding these admissions requirements and procedures. One exception from the general college procedures are the different admissions deadlines for Counseling and Guidance.

ADMISSION DATES

The last date for filing admissions credentials for admission to the Department of Counseling and Guidance is July 16 for the first semester of 1974-75, November 19 for the second semester of 1974-75, April 22 for the First Summer Session of 1974 and June 30 for the Second Summer Session.

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
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 895N, Principles of Guidance and Counseling
COUN 826N, Introduction to Counseling Theories
COUN 827N, Appraisal Techniques in Counseling and Guidance
COUN 828N, Counseling Practices
COUN 829N, Community Involvement for Urban Counselors

Specialization in School Counseling—Secondary Level*
I. Foundation Course 3 hours
FED 801N, Introduction to Research

II. Selected Cognate Courses 6-15 hours
These are most often selected from offerings of the Psychology, Sociology, Elementary Education and Special Education departments.

III. Counseling and Guidance Courses 19-28 hours
COUN 896N, Principles of Guidance and Counseling
FED 802N, Introduction to Counseling Theories
COUN 821N, Occupational and Educational Information
COUN 822N, Appraisal Techniques in Counseling and Guidance
COUN 823N, Counseling Practices
COUN 824N, Counseling Practicum
COUN 825N, Community Involvement for Urban Counselors

Selected additional courses in the department.

Specialization in School Counseling—Elementary Level*
I. Foundation Course 3 hours
PSYCH 811N, Introduction to Research

II. Selected Cognate Courses 6-12 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 897N, Principles of Guidance and Counseling
COUN 826N, Introduction to Counseling Theories
COUN 827N, Child Assessment in Elementary School Guidance
COUN 828N, Counseling Elementary School Children

Practicum or Internship 3-6 hours
Selected additional courses in the department.

Specialization in College Student Personnel Services
I. Foundation Course 3 hours
FED 801N, Introduction to Research

II. Selected Cognate Courses 6-15 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 21-27 hours
The pattern of course work 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 Activites.

Course Descriptions

COUN 895N Guidance Skills for Secondary Teachers 3 hours
PREREQ: Senior or Graduate.
Course designed to familiarize educators with guidance activities of schools, the counselor's role in these activities, and to develop appropriate guidance and listening skills. No credit for guidance majors.

* Teaching certificate required for institutional endorsement to serve as secondary or elementary school counselors in Nebraska or Iowa.
62V Counseling Elementary School Children ............................................ 3 hours
PREREQ: Coun 830V, 831V
A study of the methods and techniques applicable in counseling young children.

832V Elementary School Counseling Practicum ........................................ 4 hours
PREREQ: Coun 831V and permission of department.
Counseling in the elementary setting under the supervision of counseling professor of the University.

833V Elementary Counseling Internship .................................................. 6 hours
PREREQ: Coun 832V and permission of department.
Field experience in all elementary counseling program under the supervision of a counseling professor and appropriate in-school personnel.

835V Guidance Services and the Disadvantaged Youth ............................. 3 hours
PREREQ: Coun 825V and 832V
A study of the methods and techniques in counseling disadvantaged youth.

845V College Student Personnel Internship ........................................... 6 hours
PREREQ: Permission of instructor
This course is designed to provide practical work experience under supervision in various areas within student personnel services.

899 Thesis .................................................................................................... 1-6 hours
PREREQ: Independent research project written under the supervision of an advisor.

895U Theories and Studies in Occupational Educational Information ........ 2-3 hours
PREREQ: Coun 822V
Advance study of theories and research related to vocational development, and current research in the construction and use of occupational and educational information.

810U Advanced Studies in Counseling ..................................................... 3-4 hours
PREREQ: Coun 810U or 831V or 832V
An intensive study of selected counseling theories, methods and research.

812U Counseling With Parents .................................................................... 2 hours
PREREQ: Coun 823V or Coun 832V or permission of instructor.
A course emphasizing techniques used in working with families.

815U Advanced Counseling Practicum ..................................................... 2-3 hours
PREREQ: Coun 823V or 831V or 832V and permission of department.
Continuation of Practicum in Counseling.

818U Guidance and Counseling Seminar .................................................. 2 hours
PREREQ: Permission of department
The consideration of topics having current relevance to guidance and counseling.

819U Research Project in Counseling and Guidance ................................. 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:
Professors Donald Cushenbery, Aaron Arnpfield (Chairman), James M.
Wood;
Associate Professors James Akers, Roger Harvey;
Assistant Professor 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 proficiencies 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 admittance 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 444, Speech Path II: Rhythm and Symbolization; SPED 445, Phonetics; SPED 450, Speech Correction in Elementary and Secondary Schools; 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. 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 831V 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 have 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.
   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. Upon successful completion of the program, the student is recommended for K-12 endorsement in reading in Nebraska.

I. Core Professional Courses 12-15 hours
   - including work in graduate reading courses (SPED 911, 912, 812V, 814V and 815V or their equivalent).

II Related Professional Courses 12 hours
   - including work in Research and selected work in such areas as foundation and general education, elementary education, secondary education, special education, and psychology.

III. Related Cognate Courses 9-12 hours
   - including selected work in such areas as guidance and counseling and/or the various subject areas mentioned under sections I and II.

   **Major in Speech Pathology**

   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 work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
      - SPED 341, Introduction to Communication Disorders
      - SPED 433, Speech Reading and Auditory Training
      - SPED 437, Basic Audiology
      - SPED 438, Auditory and Speech Mechanisms
      - SPED 442, Psychology of Speech
      - SPED 443, Speech Pathology I: Voice and Articulation
      - SPED 444, Speech Pathology II: Rhythm and Symbolization
      - SPED 445, Phonetics
      - SPED 450, Speech Correction in the Elementary and Secondary Schools
      - SPED 451, Basic Practicum Speech
      - SPED 475, Language Development of Exceptional Children

   **III. Elective Courses in Related Areas**

   Depending upon the student's preparatory work, courses may be chosen in fields such as psychology, sociology, speech, English, and other related areas.

   **Major in Teaching the Deaf**

   The Master of Science degree with a major in teaching the deaf involves these requirements:
   1. Required Courses
      - FED 801V, Introduction to Research
      - SPED 841V, Advanced Studies in Disorders of Articulation
      - SPED 842V, Advanced Studies in Disorders of Voice
      - SPED 843V, Advanced Studies in Disorders of Rhythm and Rhythmology
      - SPED 856V, Speech Problems of Cerebral Palsied Children
      - SPED 860M, Learning Disabilities
      - SPED 862M, Teaching Speech to the Deaf I
      - SPED 863M, Teaching of Language to the Deaf I
      - SPED 864M, Teaching of Language to the Deaf II
      - SPED 870V, Seminar in Special Education

   **II. Elective Courses**

   - SPED 865V, Current Practice in Speech Pathology
   - SPED 866V, Basic Practicum Speech
   - SPED 867V, Advanced Practicum Speech
   - SPED 868V, Advanced Practicum Speech
   - SPED 869V, Advanced Practicum Speech
   - SPED 871V, Advanced Practicum Speech
   - SPED 872V, Advanced Practicum Speech
   - SPED 873V, Advanced Practicum Speech
   - SPED 875V, Advanced Practicum Speech

   **III. Elective Courses in Related Areas**

   Depending upon the student's preparatory work, courses may be chosen in fields such as psychology, sociology, speech, English, and other related areas.

   **Major in Teaching the Mentally Retarded**

   The Master of Science degree with a major in mental retardation provides broad study programs for students who wish to improve and expand competency areas necessary for greater individual proficiency in teaching mentally retarded children. State certification in EMH and TMH teaching are also available through this program. The following program requirements must be fulfilled:
   * Student is responsible for prerequisites in any elective area.
   ** Substitutions possible where student has taken equivalent courses on the undergraduate or graduate levels.
1. Applicants to the M.S. degree with a major in Mental Retardation must be approved by the Graduate Dean and the Major adviser.
2. Applicants should hold a valid certificate. Those not holding teaching certificates will be required to take preparatory courses in teacher education (the number of courses to be taken will be subject to a review of the applicant's transcripts and his/her related experiences in teaching children).
3. To be admitted as a candidate for an M.S. degree with a major in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering the first twelve hours.
4. Each candidate, having successfully completed thirty hours of course work and practicum, and enrolled for their last six hours, will be required to pass a final oral examination prior to his/her being recommended for the M.S. degree with a major in Mental Retardation.
5. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

I. Required Courses

FED 601V, Introduction to Research
SPED 850M, Introduction to the Exceptional Child
SPED 860M, Introduction of the Mentally Subnormal Child
SPED 863M, Emotional Development
SPED 864M, Methods and Materials for Teaching Mentally Retarded
SPED 872V, Basic Observation and Student Teaching
SPED 873V, Advanced Observation and Student Teaching
SPED 870V, Seminar in Special Education
One course surveying language difficulties (or other equivalent course)
SPED 875V, Introduction to Speech and Hearing Disorder
SPED 875M, Language Development of Exceptional Children
One course concerning evaluation techniques (or other equivalent course)
Psych 831M, Diagnosis of Learning Disabilities
Psych 832V, Testing and Measurement
Psych 831M, Psychological and Educational Testing

II. Electives

SPED 840M, Learning Disabilities
SPED 850M, Emotional Development
SPED 855V, 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 Children
SPED 890V, Administration and Supervision of Special Education

Major in Teaching the Emotionally Disturbed**

I. Required Courses

FED 601V, Introduction to Research
SPED 850V, Teaching the Exceptional Child
SPED 855M, Emotional Development of Children and Youth
SPED 880M, Classroom Techniques for Behavior Control
SPED 873V, Seminar in Special Education
SPED 872V, Basic Observation and Student Teaching of Special Education

**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.
841M Speech Pathology I: Voice and Articulation

Types and causes of voice and articulation disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with individual involvements.

844M Speech Pathology II: Rhythm and Symbolization

Types and causes of rhythm and language symbolism disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with stuttering, aphasia, and delayed language development.

845M Phonetics

Introduction to International Phonetic Alphabet; analysis of phonetic and phonemic elements in major American English dialects; practice in transcription of standard and defective speech.

850M Speech Correction in the Elementary and Secondary Schools

PREREQ: Graduate Standing and 6 hours Speech Pathology courses. Speech correction programs as related to goals of public education for school age children; role and responsibilities of the speech clinician; current theories in evaluation, case load selection and scheduling; special emphasis on methods and materials appropriate to a variety of facilities.

51M Basic Clinical Practicum in Speech Pathology

PREREQ: Graduate Standing and permission. Minimum of 40-60 clock hours per credit hour; supervised observation and practice in speech and hearing center; diagnostic interviews; therapy sessions; lesson plans; weekly practicum summaries.

669M Introduction to The Mentally Subnormal Child

Nature and educational needs of children and youth who are mentally subnormal; definitions; prevalence and types of children in educational programs; history; trends.

863M Curriculum for the Mentally Retarded

The mentally retarded child as an educable or trainable individual; an investigation of the practices and problems in curriculum development; the mentally retarded child; preschool; early childhood; identification of needs and goals and determination of content.

862M Methods and Materials for Teaching the Mentally Retarded

The mentally retarded child as he relates to a variety of educational programs; designed for his learning needs; methodology and teaching materials. Practice in the design and implementation of curriculum units, pre-school through secondary; consideration of programs for the trainable and educable programs.

970M Introduction to Teaching the Gifted

Introduction to techniques and materials for identifying and helping to understand the specific development needs of gifted pupils and guidance services appropriate for them; understand types of learning tasks and the rate of achievement with them; analysis of filmed demonstrations and lessons appropriate to the specific needs of gifted pupils.

875M Language Development of Exceptional Children

This course is designed to cover a brief history of linguistic science; an investigation of the language development of children; a discussion of the various problems involved in language acquisition among exceptional children; and the various methodological techniques of teaching language to exceptional children.

980M Emotional Development of Children and Youth

An introductory study of emotional maturity of children and youth with attention to the symptoms and causes of emotional disturbance, and the means of improvement.

881M Classroom Techniques for Behavior Control

PREREQ: Graduate standing. This course explores the various theories on behavior modification and discusses the application of those theories to the classroom. It is particularly appropriate for those teachers who teach a class for the emotionally disturbed or have a number of behavioral problems in their classes.

885M Introduction to the Education of the Physically Handicapped

Nature and educational needs of children and youth who are physically handicapped; definitions; prevalence and types of children in educational programs; history; trends.

863M Clinical Observation of the Multi-Handicapped

To familiarize students with the multi-disciplinary team approach to treatment of handicapped children in the clinical setting.

800V Special Projects (I, II, S) 1, 2 or 3 hours

A series of intensive courses especially for teachers in-service scheduled as regular seminars, or workshops, according to purpose.

806V Teaching the Exceptional Child

PREREQ: Required course for all Special Ed. Majors. Identification of exceptional children with respect to educational opportunities; current concepts and goals of special education; specific consideration of educational programs for children who are gifted, mentally retarded, speech handicapped, visually handicapped, and motivationally disadvantaged; survey of trends and professional opportunities.

807V Introduction to Speech and Hearing Disorders

A survey of the disorders of speech, hearing and language; normal development of communication; identification of needs and goals and determination of content.

810V Research Projects

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

812V Diagnostic and Remedial Instruction in Reading

A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediation of reading disabilities.

814V Measurement and Evaluation of Reading

A course for advanced students in reading which will provide the student with the necessary training for establishing and operating a reading center (i.e., initiating and operating referrals, forming evaluation schedules, administering appropriate evaluative devices, writing case reports and establishing follow-up sessions).

815V Clinical Practice in Reading

A laboratory-oriented course for advanced students in reading which will provide them with practicum training in the use of proper remedial teaching techniques in order that they might qualify as reading specialists.

816V Reading Problems of the Disadvantaged Child

Investigation relating to causes of reading difficulties of the culturally disadvantaged; methods and materials; demonstration of individual and group reading remediation procedures.

841V Advanced Studies in the Disorders of Speech Articulation

Types and causes of articulation disorders; rationale for case selection; S-R theory; special emphasis on rehabilitation procedures associated with individual involvements; practicum.

842V Advanced Studies in the Disorders of Voice

Types and causes of voice disorders; rationale for case selection; deaf palate; special emphasis on rehabilitation procedures associated with individual involvements; practicum.

843V Advanced Studies in the Disorders of Rate and Rhythm

Types and causes of rate, rhythm and stress pattern disorders; rationale for case selection; survey of stuttering theories and therapies; special emphasis on rehabilitation procedures associated with individual involvements.

844V Advanced Studies in the Disorders of Aphasia and Related Problems

Types and causes of language symbolization disorders; rationale for case selection; childhood aphasia and autism; special emphasis on rehabilitation procedures associated with individual involvements; practicum.

845V Current Practicum in Speech Pathology

This course provides for study and experience in speech therapy utilizing behavioral modification techniques based on Skinnerian-behavioral principles. It includes a review of current literature and emphasizes operant articulatory and language remedial procedures.
855V Speech Evaluation: Methods and Practicum
PREREQ: Introduction to Speech Pathology and 6 hours of Speech Pathology
Tests and procedures for evaluating individuals with speech disorders: principles in differential diagnosis and report writing; observation during evaluation periods in speech and hearing centers.

847V Neurophysiology of Speech
(1) 3 hours
Basic structure and function of the organs of hearing and speech; theories of cortical involvements, central and peripheral nervous systems as they affect communication: individual projects.

846V Advanced Audiology
PREREQ: 451 and Graduate Standing
Audiological assessment of hearing loss including case history, specialized audiometric tests, and counseling of clients, new and experimental procedures discussed: principles and procedures for selection and use of auditory amplification prostheses; industrial audiology and medicolegal problems discussed.

845V Clinical Practicum in Speech Pathology
(I, II, S) 3 hours
This course provides the student with an "externship" experience for clinical practicum in either a clinic or a medical setting. A minimum of 40 clock hours of work is required for each credit hour per semester.

844V Advanced Clinical Practicum in Speech Pathology
(I, II, S) 3 hours
PREREQ: 451 and Graduate Standing
This course provides the student with an "externship" experience for clinical practicum in either a clinic or a medical setting. A minimum of 40 clock hours of work is required for each credit hour per semester.

843V Basic Clinical Practicum in Speech Pathology
(I, II, S) 3 hours
PREREQ: 451
This course follows the course 451 which is the student's first experience in clinical practicum. It is designed to give graduate students who need more than one semester of closely supervised practical an opportunity to get this experience before being placed in a setting away from the University.

842V Advanced Problems in Speech Pathology
(II) 3 hours
PREREQ: Twenty-four hours Speech Pathology and Graduate Standing
This course investigates three different areas of current concern in Speech Pathology: initial survey, annotated bibliography, presentation of conclusions and semiannual discussion of findings. Instructor will base his lectures on topics chosen by students for study.

841V Alaryngeal Speech Rehabilitation
(I) 3 hours
PREREQ: Graduate Standing and 6 hours Speech Pathology courses including voice problems Problems of voice and speech for the individual without a functional larynx; social, emotional, and medical considerations as well as specific procedures for esophageal, pharyngeal, and buccal speech: implications for use of artificial larynx; current research pertinent to this area.

840V Speech Problems of Cerebral Palsied Children
PREREQ: SPED 451
Identification of types of cerebral palsy by a location of lesion, motor symptomology, and additional handicaps: role of the speech clinician in the therapy of speech therapy, with special emphasis on the Bebath approach; current research and controversial issues will be discussed.

839V Vocational Training of the Mentally Retarded
(II) 3 hours
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, prototype work-study programs, the rationale of vocational adjustment programs, and the future of the mentally retarded in the world of work.

838V Community Services For the Mentally Retarded
3 hours
The student will be introduced to community and regional resources which provide service according to the needs of the individual. These resources will constitute activity centers, shelter workshops, day homes, and others. From these sources the student will come to an understanding of the needs of the individual, the roles of the staff, and the effective utilization of community resources.

837V Seminar in Special Education
(I, II, S) 3 hours
Graduate course primarily for Special Education majors and professionals working in the field of speech and hearing, teaching the deaf, teaching the mentally retarded, and teaching the physically handicapped. Familiarity with philosophy, major literature and practices in each area, student will research and prepare a paper reflecting their personal professional interests. Discussions, forums, and panels; visiting experts.

836V Parent-Professional Relationships in Special Education
PREREQ: 450
Professionals dealing with handicapped children become aware that a child's handicap affects the family unit and the community. Conversely, the family and the community influence the child's adjustment to his handicap. This course deals with the development of positive relationships between parents and professionals.

835V Basic Observation and Student Teaching in Special Education
(I, II, S) 3 hours
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.

834V Advanced Observation and Student Teaching in Special Education
(I, II, S) 3 or 5 hours
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.

833V Methods and Materials for Teaching the Physically Handicapped
(II) 3 hours
PREREQ: 450 and Intro. to the Education of the Physically Handicapped
Consideration of the physically handicapped child as his unique exceptonalities 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.

832V Diagnosis of Learning Disability
(I, II, S) 3 hours
PREREQ: COUN 491 or equivalent and Graduate Standing
Special practitioners and teachers are often required to interpret the results of evaluations developed through the use of testing. This course familiarizes the student with the various techniques used for diagnosing or evaluating learning problems.

831V Clinical Teaching in Learning Disabilities
3 hours
Theoretical and limited practical knowledge of a particular kind of teaching, which is to tailor learning experiences to the unique needs of children who have specific learning disabilities. The student learns the flexibility and continuous probing needed for individualized instruction.

830V Thesis
(II, S) 3-6 hours
Required of all students taking Master of Arts degree, see major adviser for information.

829V Basic Practicum in Special Education
(I, II, S) 3 hours
PREREQ: Master's Degree and acceptance in the Ed Spec Program
This course provides participation in various clinical or classroom situations in the field of special education. The 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.
Administration and Supervision will be determined by the major adviser upon request.

Admission to the Graduate Faculty Members:

72 Seminar in Organization and Administration of Reading Problems (I, II, S) 3 hours
An advanced course in reading for elementary or secondary teachers. Major emphasis will be given to the administration, organization, evaluation, methods and materials for the teaching of reading in each of the content subjects at junior and senior high school levels. (Cushenbery)

975U Advanced Practicum in Special Education (II) 3 hours
PREREQ: 872U
A second semester of participation in various clinical or classroom situations in the field of special education. The 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.

850U Administration and Supervision of Special Education (I) 3 hours
PREREQ: Ed. 801V, Ed. Ad. 862V, and Ed. Ad. 866V and Admission to the Education Specialist Program
This 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 an integrated approach to problem solving. Real and hypothetical cases will be presented. This course is based on the modern behaviorally oriented science of administration.

911 Problems of Teaching Reading-Elementary (I, II, III) 3 hours
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. (Cushenbery)

912 Problems of Teaching Reading-Secondary (II, III) 3 hours
An advanced course in reading for elementary or secondary teachers. Major emphasis will be given to the administration, organization, and use of instructional materials for the teaching of reading in each of the content subjects at junior and senior high school levels. (Cushenbery)

917 Seminar in Organization and Administration of Reading Problems (I) 3 hours
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 professional workers who are charged with the total or partial responsibility for organizing and administering reading programs. Familiarity with the philosophy, organization, and major research related to different reading programs will be emphasized. Local and area reading authorities will conduct panels and lectures on topics chosen by the students. (Cushenbery)

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. Rachford, Ronald W. Roskens.
Assistant Professor Charles 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.

Master of Science

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 Bachelor's degree from a regionally accredited institution.
3. Applicants must have at least two years of experience as a certified teacher.

Admission to Candidacy
1. Applicants must have taken nine approved hours with grades of B or better. Students taking course work beyond nine hours do so at their own risk unless such course work has had prior approval.
2. Applicants must take either the Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analogy Examination.
3. Applicants must complete the Admission to Candidacy application which requires reference recommendations and approval of a program by an adviser. This application should be procured immediately upon completion of nine hours and the qualifying examination.

Program Design
The Master of Science degree, with a major in Educational Administration, has been designed to allow the department to endorse a student to be either an elementary administrator or a secondary administrator. Along with successful completion of one of the programs, only students with three years of successful teaching experience will receive institutional endorsement.

Major in Elementary Administration and Supervision
I. Required Courses
   - EDAD 801V Introduction of Research
   - EDAD 840V Admin. & Suprv in the Elem. School
   - EDAD 841V Practicum I in EDAD
   - EDAD 842V Practicum II in EDAD

II. Selected courses from the following
   - EDAD 810V Research Project in EDAD
   - EDAD 822V Seminar in EDAD
   - EDAD 824V School Business Management
   - EDAD 830V School Finance
   - EDAD 840V School Plant Planning and Operation
   - EDAD 850V Organization and Admn of the Physical Plant
   - EDAD 870V Administration and Staff Personnel
   - EDAD 871V Interpersonal Relationships in EDAD
   - EDAD 880V Admin. & Suprv of Vocational Education
   - EDAD 881V Urban School Administration
   - EDAD 882V Administration of Higher Education
   - EDAD 883V School Law
   - EDAD 894V School Plant Planning and Operation
   - EDAD 895V Organization and Admn of the Physical Plant
   - EDAD 896V Administration and Staff Personnel

III. Selected courses to be taken outside of the department with adviser's approval
   - EDAD 897V School Plant Planning and Operation
   - EDAD 898V Organization and Admn of the Physical Plant
   - EDAD 899V Administration and Staff Personnel

University of Nebraska at Omaha
Specialist in Education

This outline of program includes the work which might typically constitute the fifth and sixth years of collegiate work. The total course work for both M.S. and Ed.S. would accumulate to not less than 66 graduate hours. The program reflects the philosophy which supports graduate education at the University that each student should be able to design a portion of his program to best harmonize his needs and ambitions. Each program will be designed with the aid of the student's adviser and must be approved by the candidate's committee.

Students cannot assume that any post-M.A. or M.S. degree course work will apply to the Ed.S. degree unless such course work has been included as a part of a planned program approved by the student's advisory committee.

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 a full certification in educational administration and show evidence of having completed at least one year of successful practice as an educational administrator.
4. Applicants must have taken either the Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analogy Examination. Scores on the GRE must total at least 1200 and the score of the M.A. must be at the 30th percentile or better.
5. A recommendation for study for the Ed.S. degree must be made prior to the 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 (EdAd 800U and 801U) and the field project (EdAd 811U).

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

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

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

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 need to 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.

Course Descriptions

000V  Special Studies in Educational Administration and Supervision (1, 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 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 inter-relationship between the federal, state, and local responsibilities.

840V  Practicum in Educational Administration and Supervision 3 hours
   PREREQ: Completion of 24 hours of Graduate study and approval of written application.
   Designed to provide guided study and practice in elementary, secondary or general administration and supervision as the interests and needs of the student require.

841V  Practicum in Educational Administration and Supervision 3 hours
   PREREQ: EDAD 840V
   Continuation of Education 840V. Continued 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: EDD 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: EDD 801V and EDAD 830V
   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: EDD 801V and EDAD 830V
   This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.
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.

934 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)

954V Seminar in Research in Education 3 hours

Includes steps in planning the modern school plant: 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 806V

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.

970V 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.

971V 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.

980V Administration and Supervision of Vocational Education 3 hours

Basic concepts of administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor.

981V 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.

985V Administration of Higher Education 3 hours

PreReq: Admission to graduate study and approval

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.

993V Seminar in Research Design 3 hours

PreReq: Adm to Ed.S. Program

A seminar designed to acquaint students with the principles of research design and to provide experience in the application of these principles to problems in educational administration.

811V Advanced Seminar in Educational Administration 3 hours

PreReq: Admission to Education Specialist Program Participation 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.

811U 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.

994 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)
HEALTH, PHYSICAL EDUCATION, AND RECREATION
(HPER)

Graduate Faculty Members:
Associate Professor Richard B. Flynn (Chairman)
Assistant Professor John Raducha

Graduate courses in health, physical education, and recreation are offered to fulfills requirements for an area specialization, or as cognate or selected courses on a plan of study.

Course Descriptions
824M Organization and Administration of Recreation
PREREQ: At least 9 hours of upper division courses in recreation or permission
3 hours
A study of the gross musculo-skeletal system and its function in human movement. Application of basic mechanical principles to human motion.

854M Measurement and Evaluation in Physical Education
Analysis of tests and testing procedures used in physical education. Includes a study of basic statistics. Practical experience in test administration in the schools is provided.
3 hours

864M Physiological Aspects 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.
3 hours

800V Special Studies
PREREQ: Permission of Department.
A series of intensive courses—scheduled as regular seminars, or workshops, according to purpose.
(I, II, S) 1-3 hours

810V Research Project
PREREQ: Permission of Instructor; (I, II, S) 1-3 hours
Individual or group study and analysis of specific problems in health, physical education or recreation.

822V 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.
3 hours

825V Supervision of Physical Education
Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs in physical education.
3 hours

855V Curriculum in Physical Education
A study of the foundations for curriculum development and related educational problems. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education.
3 hours

830V 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.
3 hours

837V Improvement of Instruction in Physical Education
An examination and discussion of current programs, content, methods, and materials within physical education. Emphasis is the improvement of each individual's teaching in the physical education setting.
3 hours
### Literature Courses

**840M Seventeenth Century Literature**
A study of the English poetry and prose of the seventeenth century to the Restoration with emphasis on Milton.

**850M English Drama before 1642**
PREREQ: Eng. 231 or permission
A study of the development of the English drama, exclusive of Shakespeare, from its beginnings to 1642.

**855M Structural Linguistics**
PREREQ: Graduate or permission
An analysis of the English language as it is spoken with the view to understanding the language and how to make it work most effectively.

**865M The English Novel**
PREREQ: Graduate
The development of the English novel from the beginning to the end of the Victorian period.

**867M History of the English Language**
PREREQ: Eng. 233 or permission
A study of the internal and external forces which have influenced the development of the English language.

**872M Medieval English Literature**
PREREQ: Eng. 231 or permission
A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500.

**881M Literature of the Romantic Period**
PREREQ: Graduate
Poetry and prose (excluding the novel) of England from 1798 to 1830.

**882M Literature of the Victorian Period**
PREREQ: Graduate
Poetry and prose (excluding the novel) of England from 1830 to 1890.

**895M Contemporary Literary Movements**
PREREQ: Graduate
A critical study of selected major literary figures or major literary movements which have appeared since World War II.

**897M The American Novel**
PREREQ: Graduate
The major American novelists from Hawthorne to the present.

**900M The American Drama**
PREREQ: Graduate
A general view of the history of the drama and theatre in the United States, especially as related to the main currents of American thought.

**901V Seminar: Introduction to Literary Research**
PREREQ: Graduate
A survey of the techniques of literary research, history and interpretation, with a primary emphasis on methods of scholarship currently useful to the study of English and American literature.

**904V Seminar: Literary Criticism**
PREREQ: Graduate
Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth century England and twelfth century America.

**905V Seminar in American Literature**
PREREQ: Graduate
An analytical study of the major literary movements in nineteenth and twentieth century America as they are expressed in poetry, fiction, drama and criticism.

**909V Seminar: The English Renaissance**
PREREQ: Graduate standing or permission
A seminar in a few significant literary figures of the English Renaissance.

**909M Seminar: The Restoration and Early 18th Century**
PREREQ: Graduate
A detailed study of selected authors and works of the Augustan Age of English literature (1660-1750).

### Foreign Languages

**841L Eighteenth Century French Literature**
PREREQ: French 212
Study of the Enlightenment, emphasizing the works of Montesquieu, Voltaire, Rousseau and Diderot.

**851-852L Nineteenth Century French Literature**
PREREQ: French 212 for either 851L or 852L
851L: 1789 to 1848, Lamartine to Michelet, Stendhal, Mérimée, Balzac, Hugo. 852L: 1850-1885, Realism, Naturalism, Parnasse, Symbolism.

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

**805M Introduction to the Study of Language**
PREREQ: graduate standing or permission
A broad, general study of the nature of language, how it functions and changes; references to contemporary trends in linguistic analysis and research.
### GRADUATE BULLETIN

**624M Contemporary French and German Novel**  
PREREQ: Permission  
Comparative study of selected contemporary French and German novels.  
Cross-listed as German 815M and English 815M.

**621M Sixteenth Century French Literature**  
PREREQ: Any 300 course in French literature  
Literature of the Renaissance, Rabelais, Ronsard, Montaigne.

**621M Seventeenth Century French Literature**  
PREREQ: Any 300 course in French literature  
The Classical School Descartes, Pascal, Corneille, Molière, Racine. La Fontaine.

**651M-652M Twentieth Century French Literature**  
PREREQ: For either 851M or 852M, any French 300 course in literature or permission of instructor.  
851M: Main currents of twentieth century literature from the beginning to 1930.  
852M: Continuation to current literary production.

**850M Pro-Seminar**  
PREREQ: Permission of instructor  
A detailed study of narrower phases of French literature, language or culture.

**Germ (GERM)**

**610M Independent Study**  
PREREQ: Permission of the instructor  
Guided independent study and research under tutorial supervision.

**625M Introduction to the Study of Language**  
PREREQ: Graduate standing or permission.  
A broad, general study of the nature of language, how it functions and changes; references to contemporary trends in linguistic analysis and research.

**615M Contemporary French and German Novel**  
PREREQ: Permission  
Comparative study of selected contemporary French and German novels.  
Cross-listed as French 815M and English 815M.

**631M German Literature of the 19th Century**  
PREREQ: German 303  
The dramatic, epic and lyric works of nineteenth century German literature.

**632M German Literature of the 20th Century**  
PREREQ: German 303  
The principal dramatic, epic and lyric works of the twentieth century German literature.

**639M German Novel**  
PREREQ: German 303 or permission  
Survey of the German novel from its beginning to the twentieth century.

**640M German Novelle**  
PREREQ: German 303 or permission  
Survey of the German short story, its historical origin, characteristics.

**641M German Drama**  
PREREQ: German 303 or permission  
Study of several of the better-known dramas, history of drama development in Germany.

**645M German Literature of the Seventeenth Century**  
PREREQ: German 303 or permission of instructor  
The principal dramatic epic and lyric works of seventeenth century German literature.

**650M German Literature of the Eighteenth Century**  
PREREQ: Permission of instructor  
A study of representative authors of the Enlightenment, Storm and Stress, and German Classicism: Lessing, Herder, Schiller, and Goethe.

**845M Bibliography and Methodology**  
PREREQ: Permission of instructor  
An introduction to the basic bibliography and methodology of German literature and language.

**840M Pro-Seminar**  
PREREQ: Permission of instructor  
A detailed study of narrower phases of Spanish or Spanish American literature, language or culture.

### UNIVERSITY OF NEBRASKA AT OMAHA

**800M Pro-Seminar in Spanish Literature**  
PREREQ: Permission of instructor  
A detailed study of narrower phases of Spanish literature, language or culture.

**805M Introduction to the Study of Language**  
PREREQ: Graduate standing or permission.  
A broad, general study of the nature of language, how it functions and changes; references to contemporary trends in linguistic analysis and research.

**850M Modern Drama of Spain**  
PREREQ: Spanish 318 or permission  
Ideological, technical, trends, and influences of the major Spanish dramatists of the nineteenth and twentieth centuries.

**851L Modern Novel of Spain**  
PREREQ: Spanish 318 or permission  
Analytical study of the representative Spanish novelists of the nineteenth and twentieth centuries from P. A. de Alarcón to Cela.

**900M Independent Study**  
PREREQ: Permission of the instructor  
Guided independent study and research under tutorial supervision.

**810M Theater of the Golden Age**  
PREREQ: Spanish 317 or permission of instructor  
Foremost Spanish dramatists and plays of the sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina and Calderón de la Barca.

**811M Novel of the Golden Age**  
PREREQ: Spanish 317 or permission of instructor  
Study of the novel masterpiece of sixteenth and seventeenth centuries, including such works as Lazarillo de Tormes, La Celestina, and Don Quixote.

**816M Spanish American Literature of the 20th Century**  
PREREQ: Spanish 322 or permission  
Critical and analytical study of the foremost Spanish American dramatists and writers, from Modernism to the present.

**820M Spanish American Novel**  
PREREQ: Spanish 322 or permission  
Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors.

**824M Golden Generation of 1898**  
PREREQ: Spanish 318 or permission  
Examination of the ideology, philosophy, and literary techniques of Unamuno, Martinez Ruiz, Valle-Inclán, Baroja and Antonio Machado.

**835M Spanish American Short Story**  
PREREQ: Spanish 321 and 322 or permission of instructor  
Representative stories of the nineteenth and twentieth centuries from Realism to current production.

**600M Pro-Seminar**  
PREREQ: Permission of instructor  
A detailed study of narrower phases of Spanish or Spanish American literature, language or culture.

### GEOGRAPHY AND GEOLOGY (GEOG-GEOL)

**Graduate Faculty Members:**

- Professors Nicholas Bariss, Harold J. Retallick, Gordon B. Schilz (Chairman), Philip E. Vogel;
- Associate Professor John F. Shroder, 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 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 graduate 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

**841L History of Nebraska (Same as Hist. 841L)**
- PREREQ: Permission
- From earliest known records to the present.
- 3 hours

**801M Conservation of Natural Resources**
- PREREQ: 3 hours of Geog
- 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. and the philosophy behind the movement, current conservation practices and problems, and the direction in which resource use and conservation is moving.
- 3 hours

**812M Urban Geography (Same as Econ. 812M and Soc. 812M and Hist. 843M)**
- A geography of the city from the viewpoint of history, site and situation, external relations, internal relations, and the comparative study of cities.
- 3 hours

**813M Geography of Manufacturing (Same as Econ. 813M)**
- PREREQ: Geog. 313 or Econ. 211 and 292
- 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.
- 3 hours

**814M Urban Sociology (Same as Soc. 814M)**
- PREREQ: Graduate
- A course in the sociology of cities and the social characteristics of urban life, stressing its historical, ecological, social, psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.
- 3 hours

**820M Great Plains and Nebraska (Same as Hist. 820M)**
- 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 some previous study with regional geography.
- 3 hours

**831M Climates of the World**
- PREREQ: Geog. 108 (or a meteorology course)
- 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 scaling for the "what" and "why" about the climates of the continental subregions. The modified Koppen classification system is applied.
- 3 hours

**853M Historical Geography of the United States (Same as Hist. 853M)**
- PREREQ: Permission
- American Urban History Since 1870
- 3 hours

**855M Urbanization in Developing Areas**
- PREREQ: 6 hours of Geog. and Urban Geog. 812M
- 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.
- 3 hours

**890M Urbanization in Developing Areas**
- PREREQ: Permission of Department Chairman
- American Urban History Since 1870
- 3 hours

**911V Geography Concepts: Quantitative Methods**
- PREREQ: Permission
- The understanding and appreciation of quantitative techniques in geography. Emphasis is placed on sampling theory and design, graph theory and spatial statistics.
- 3 hours

**914V Seminar in Educational Geography**
- PREREQ: Permission
- A survey of methods, instruction aids and goals for teaching geography. Designed to aid the teacher in the improvement of geographic instruction in the elementary and secondary schools as well as in higher education.
- 3 hours

**915V Cultural Geography**
- PREREQ: Permission
- The philosophical basis of human and cultural geography; interpretation of the cultural landscape.
- 3 hours

**916V Geography of Agriculture**
- PREREQ: Permission and Geog. 313 or Econ. 313
- A systematic study of the characteristics of agriculture on a world-wide basis.
- 3 hours

**917V Advanced Geomorphology**
- PREREQ: Geog. 396, 397, or 197. Permission
- A seminar and lecture course on the current concepts and controversies in the field of landform studies. Discussion will emphasize classic ideas as well as the modern concepts of climatic, dynamic, and quantitative geomorphology. Some study of Quaternary chronology will be necessary. Several optional Saturday field trips.
### 855V Physiography of North America
- **PREREQ:** Geog. 107 (104), or 117, or 118
- A study of the landforms regions of North America as related to the whole study of geography by means of a systematic analysis of geomorphic patterns.

### 855V Soils
- **PREREQ:** Geog. 106 or 107 (104)
- An examination of the older geographical concepts of the distribution and morphology of soil and the new works concerned with soil forms on a regional, rather than zonal, basis.

### 861V Field Geography
- **PREREQ:** Permission
- A systematic discussion of techniques for studying and analyzing terrain features, land use characteristics, and the nature of their patterns as a part of the whole geographic environment.

### 865V Land Use
- **PREREQ:** Geog. 812M. Permission
- A field course designed to understand, by actual field investigation, land use patterns in urban areas through the comprehension of social, physical, and economic factors which tend to shape the land use of a given place. The major emphasis will be placed upon the field investigations in the urban area, with the functional region receiving the major consideration.

### 877V Cartographic Methods
- **PREREQ:** Geog. 252. Permission
- Teaches the student proper use of drawing instruments, effective map layout and exposure to the latest cartographic techniques, leading to a high level of competence in the design and interpretation of maps.

### 877V Population Seminar (Same as Soc. 877V)
- **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 six hours of graduate work in one of the Social Sciences
- 1 hour per semester to 3 hours
- Graduates 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 (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.

### 883V-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.
- 2 to 5 hours
- 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.)*

### 897V Seminar in Regional Economics
- **PREREQ:** Geog. 855V-888V
- Each 3 hours
- A study of the current developments and issues involving regional economics 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.

### 899V Urban Regional Research (Same as Econ. 899V-899V)
- **PREREQ:** Permission
- 1 to 6 hours
- Used in candidates for the Master of Science Degree in economics in lieu of a Master's thesis. A study of economic problems, employing research techniques. Students do independent research, consulting with adviser, and submitting completed report to a departmental committee.

### 999 Thesis
- **PREREQ:** Independent research project written under the supervision of an adviser.
- 3 to 6 hours
- A study consisting of urban economic problems, employing research techniques. Students do independent research, consulting with adviser, and submitting completed report to a departmental committee.

### 941 Seminar in Problems of Political Geography
- **PREREQ:** Permission, and Geog. 353
- 3 hours
- A study of political geography in regional, rather than zonal, basis.

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

### 991 General Seminar (required, no credit)
- Review of current research by geographers including national and international associations and initial thesis proposal.

### 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: Karl A. Dalstrom (Chairman), Dale A. Gaeddart, Richard A. Overfield, William R. Petrowski, William C. Pratt, Jacqueline S. John,
- Assistant Professors: Nan L. Britt, Tommy R. Thompson

### 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.

### M.A. Program with Thesis (Option I)

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

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*University of Nebraska at Omaha*
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.

M.A. Program without Thesis (Option II)

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six hours of course work, at least half of which must be earned in courses open only to graduate students (V series).

2. In addition to showing broad competency in history, the candidate must given proof of research ability and proficiency in writing. This normally will be done in research seminars and independent research projects.

3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some other field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six-hour minor may be gained by the adviser's permission, and the approval of the Graduate Program Committee.

4. Whether or not the student elects a minor in an outside field, he shall maintain a reasonable balance between American and non-American fields in history.

5. When the student initially enrolls, he shall, in conference with the chairman of the Graduate Program Committee of the Department of History, choose his adviser. The chairman of the History Graduate Program Committee shall, after consultation with the student and his adviser, recommend an advisory committee to the Graduate Dean for official appointment. The advisory committee shall be composed of members of the Faculty appropriate to the student's program and academic interests. The chairman of the advisory committee (and the representative of the minor field, if such field is selected) must be members of the Graduate Faculty.

6. Early in the semester the student expects to receive the Master of Arts degree, he shall take a written comprehensive examination in both history and the minor field if a minor is selected. Each section of the examination will be read by at least two members of the Graduate Faculty with competence in the areas over which the student is examined. All readers of each section must agree that the student has passed that section.

7. If in the event of failure on any one or more portion of portions of the comprehensive examination, the student must present himself/herself for re-examination in that area within one calendar year, and in no instance may the re-examination be scheduled earlier than four months after the original examination.

8. The student's adviser shall inform the chairman of the department(s) concerned, and the Graduate Dean, of the results of the comprehensive examination.

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Course Descriptions

811L American Economic History to 1865
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
PREREQ: Graduate standing
A survey of American economic development from the Civil War to the present.

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

815L The American Frontier: 1800-1849
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.

816L The American Frontier: 1840-1900
PREREQ: Hist. 852L or permission of instructor
The Trans-Mississippi West from Spanish and French days to the disappearance of the frontier around 1900.

833L Diplomatic History of the United States to 1900
PREREQ: Graduate standing
A study of the foreign relations of the United States before 1900.

834L Diplomatic History of the United States Since 1900
PREREQ: Graduate standing
A study of the foreign relations of the United States since 1900.

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

842L 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, 284-1056
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, 1056-1299
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 1380-1589.

844L 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.

891L Topics in History
PREREQ: Graduate standing
A semi-semester on selected topics based on a consideration of interpretive historical writings and/or source materials.
The Graduate Bulletin

803M 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.

802M 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.

805M History of Women in the United States
3 hours
PREREQ: Graduate standing
Study of women's history from the colonial period to the achievement of suffrage.

801M American Social and Intellectual History to 1865
3 hours
PREREQ: Graduate standing
Primarily a non-political approach to American History, this course will examine significant topics in American thought and society.

813M The Revolutionary Era, 1763-1789
(I) 3 hours
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.

814M Early Federal Period, 1789-1815
(II) 3 hours
PREREQ: Graduate standing
A study of the growth and development of the American nation during the formative years under the Constitution.

815M The Jacksonian Era
(I) 3 hours
PREREQ: Graduate standing
An interpretive study of the middle period of American history.

816M Civil War and Reconstruction
(II) 3 hours
PREREQ: Graduate standing
The background of the conflict, the years of the war and the problems of reestablishing the Union in the years that followed.

824M The Emergence of Modern America: 1877-1901
3 hours
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
(I) 3 hours
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.

830M Twentieth Century America, 1932 to Present
(II) 3 hours
PREREQ: Graduate standing
A study of the history of the United States from the election of Franklin D. Roosevelt to the Presidency to the present.

832M Ideas in Twentieth Century America
(III) 3 hours
PREREQ: Graduate standing
An analysis of some of the more important ideas which have had influence in recent America.

833M American Constitutional History to 1860
(I) 3 hours
PREREQ: Graduate standing
A history of constitutional theory and practice in the continental North American colonies of England and in the United States prior to 1860.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>927M</td>
<td>Nineteenth Century Europe, 1815-1848</td>
<td>(1) 3</td>
<td>PREREQ: Graduate standing. An advanced study of what has happened in Europe since 1815 with a view to exposing the consequences of such events.</td>
</tr>
<tr>
<td>928M</td>
<td>Nineteenth Century Europe 1848-1890</td>
<td>(1) 3</td>
<td>PREREQ: Graduate standing.</td>
</tr>
<tr>
<td>929M</td>
<td>England in the Eighteenth and Nineteenth Centuries</td>
<td>(1) 3</td>
<td>PREREQ: Graduate standing. A study of the change and development in Great Britain from 1714 to 1914.</td>
</tr>
<tr>
<td>930M</td>
<td>English Constitutional History to 1485</td>
<td>(1) 3</td>
<td>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.</td>
</tr>
<tr>
<td>931M</td>
<td>English Constitutional History Since 1485</td>
<td>(1) 3</td>
<td>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 Commonwealth and of the more important colonies.</td>
</tr>
<tr>
<td>932M</td>
<td>Nineteenth-Century Intellectual History of Russia</td>
<td>3</td>
<td>PREREQ: Graduate standing. A pre-seminar emphasizing the nineteenth-century revolutionary tradition, prototypes, ideology and impact upon Russian society.</td>
</tr>
<tr>
<td>933M</td>
<td>Europe in Crisis: 1890-1932</td>
<td>3</td>
<td>PREREQ: Graduate standing. A study of the conditions and forces immediately preceding to World War I, the war itself, the peace following the war, and the rise of the modern dictatorships.</td>
</tr>
<tr>
<td>934M</td>
<td>Europe in the Global Age: 1932 to the Present</td>
<td>3</td>
<td>PREREQ: Graduate standing. A study of the ever increasing tensions between the fascist and communist dictships and the Western democracies, World War II, the resultant dislocation of power and the emergence of the “Balance of Terror.”</td>
</tr>
<tr>
<td>935M</td>
<td>Advanced Research Project in History</td>
<td>(L, II, S) 1-5</td>
<td>PREREQ: Graduate standing and permission of instructor. Special problems in advanced work in history, arranged individually with graduate students.</td>
</tr>
<tr>
<td>936M</td>
<td>Historical Research</td>
<td>(1) 3</td>
<td>PREREQ: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 493 or equivalent) The critical method in collecting and organizing historical materials; the processes of certification, evaluation, and organization of facts; the problems of writing: documentation, styling, and printing the product.</td>
</tr>
<tr>
<td>937M</td>
<td>Great American Historians</td>
<td>(II) 3</td>
<td>PREREQ: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 496 or the equivalent) A survey of the history of American historical writing from colonial times to the present. Reports on selected readings.</td>
</tr>
<tr>
<td>938M</td>
<td>Great European Historians</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing and permission of instructor. (Not open for credit to students who have taken Hist. 497 or equivalent) A survey of the History of European historical writing from Homer to Toynbee. Reports based on selected readings.</td>
</tr>
</tbody>
</table>

**MATHMATICS (MATH)**

Graduate Faculty Members:
- Professor Paul A. Haeder (Chairman);
- Associate Professors Barbara E. Buchalter, J. Scott Downing, Joseph A. Freivald, Margaret Gessaman, John P. Maloney, Keith P. Smith;
- Assistant Professor George F. Haddix

Admission Requirements: An applicant is usually expected to have completed 15 acceptable credits in undergraduate mathematics beyond calculus, and to have an overall average of B or better during the last two undergraduate years.

**Master of Arts**

To complete the Master of Arts degree with a major in mathematics, the student must present thirty hours of work in mathematics and complete a thesis for which up to six credit may be applied toward the thirty hours. He must include mathematics course 811M, 812M, 823M, 824M, and 827M in his program if he has not had the equivalent courses 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 822V 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 822V 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

830L Numerical Methods
PREREQ: Math 195, 211 and a computer language.
Solutions of equations, polynomial approximation, difference calculus, interpolation, quadrature, initial value problems from ordinary differential equations and matrix inversion.

822L Data Structures
PREREQ: Math 195, 211 and a computer language.
List processing languages, theories of file organization, theories of information design, information retrieval, applications.

820M Linear Programming
PREREQ: CS 322 or equivalent
An introduction to linear programming and applications.

822M Introduction to System Programming
PREREQ: CS 322 or equivalent.
Input-output and storage systems, structures and transformations of data bases, assembly and executive systems.

870M Introduction to the Theory of Compilers
PREREQ: CS 322 or equivalent
Assemblers, interpreters, compilers, particular languages studied include: a) suda, b) smlbel, c) algol.

Mathematics

811L Differential Equations
PREREQ: One year of calculus
Methods of solving ordinary differential equations with applications to geometry and physics. The linear equations are emphasized.

851L Probability and Statistics I
PREREQ: Math 197 First semester required for second semester enrollment.
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
PREREQ: Math 195
Theory of sets, topological spaces, metric spaces, topological properties.

684L Modern Geometry
PREREQ: Math 196 or equivalent
Duality, perspectivity, harmonic sets, double ratio, conics and projective coordinates, projective and affine geometry, independence of sets of points and sets of lines, matrices and determinants, pole and polar, polar reciprocation in respect to a conic, classical theorems.

811M Abstract Algebra
PREREQ: Six hours of mathematics 300 or above. Math 411 required for Math 812M
An introduction to modern algebra: congruences, groups, fields, linear transformations and matrices.

822M Mathematical Analysis
PREREQ: 6 hours of mathematics numbered 300 or above
Prerequisite: Topology of Euclidean space, continuity, differentiation, Riemann-Stieltjes integration sequences and series, Math 822M required for Math 823M.

823M Complex Variables
PREREQ: Math 822M or Advanced Calculus
Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continuation, singularities and representations of analytic functions.

820M Theory of Ordinary Differential Equations
PREREQ: Math 311 (Differential Equations) and Math 423.
Power series solutions, Green's functions, existence and uniqueness theorems, plane autonomous systems, Sturm-Liouville systems, eigenfunction expansions.
The Graduate Bulletin

PHYSICS (PHYS)

Graduate Faculty Members:
Professor John G. McMullan (Chairman)
Associate Professors Raymond A. Guenther, John W. Flocken
Assistant Professor John C. Kasher

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

Course Descriptions

801L Elements of Electronics
PREREQ: Math thru Trig. and Physics 112 or 212
Each 3 hours

807L Functional Analysis
PREREQ: Math 427, 523, 562, or permission of instructor
Each 3 hours

820L Elements of Optics
PREREQ: Math 116 and Physics 112 or 212
The background of theory, operation, and practice of electrooptical devices and circuits particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved.
Electronics Laboratory
Optics Laboratory
Each 1 hour

821L Electricity and Magnetism I
PREREQ: Calculus, Physics 226, or permission
An advanced discussion of electrostatics and magneto-statics as well as a.C. theory.
Laboratory for Electricity and Magnetism I
Each 1 hour

824L Electricity and Magnetism II
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
Each 1 hour

851L Thermodynamics and Statistical Mechanics
PREREQ: Calculus and Physics 112 or 212
The topics of thermodynamics include various equations of state, first and second laws of thermodynamics, thermodynamic potentials and their uses. In addition, an introduction to classical statistics, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena is given.
Each 3 hours

855M Solid State
PREREQ: Calculus and Physics 322 or permission
Behavior of materials in the solid state as concerns Energy Levels, Wave Mechanics, Optical and Electrical Phenomena.
Each 3 hours

812M Modern Physics
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.
Modern Physics Laboratory
Each 1 hour

814M Nuclear Physics
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.
Nuclear Physics Laboratory
Each 1 hour

Master of Arts
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.
Course Descriptions

**Political Science**

**803M 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 wields 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, the bar, and the reform movements in the most basic of all man's objectives, "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.

**812M Public Opinion and Political Behavior**
3 hours
Analysis of the political socialization process as it relates to opinion formulation and participation and the effects of this process on the operation of the political system.

**818M 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, and the nature of the Government and the role of the United States Supreme Court in the development of the institutions and powers of the American Federal System.

**819M 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 and designing 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 foreign policies, 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 processes of foreign policy making, and the relations among members of the Communist party as well as the influence of the international system of Asia.

**822M Inter-American Politics**
3 hours
Analysis of the role of Latin American states in the international political arena. Emphasis upon developing applying and testing an explanatory theory of international politics through the study of the Latin American states: the regional institutional and ideological environment, power relations, policies, and contemporary problems.

**823M Political Theory I**
3 hours
Reviews and analyzes the leading political theories of Western Man from the Hebrews and Greeks to the mid-17th Century.

**824M Political Theory II**
3 hours
Continues the review and analysis of the leading political theories of Western Man begun in Pol. Sci. 411, 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 Man begun in Pol. Sci. 411, bringing the study down to the present day.

**831M Political Theory IV**
3 hours
An over-view 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.

**833M Democracy**
3 hours
A basic study of theory, practice and practitioners of political democracy, its roots, development, present application and problems.

**834M Dictatorships**
3 hours
A basic study of theory, practice and practitioners of political dictatorship, its roots, development, major 20th century application and stability, and threats to man.

**835M 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.

**836M Government and Politics of Great Britain**
3 hours
A comprehensive study of British politics and government. Emphasis will be placed on the formal institutions and informal customs and practices of the British political system.

**837M Government and Politics of the U.S.S.R.**
3 hours
An analysis of the structure and processes of government in the U.S.S.R. Special attention will be devoted to the role of the Communist Party in Soviet politics and to the ideological and social factors which influence policy formation.

**860V Seminar in Comparative Politics**
3 hours
PREREQ: Permission of graduate adviser
A critical evaluation of the methods of data collection and analysis for political science research.

**864V Seminar in American Government and Politics**
3 hours
PREREQ: Permission of graduate adviser
A thorough analysis of selected aspects of the structure and function of the American political system with emphasis on individual research.

**851V Seminar in Public Law**
3 hours
PREREQ: Three semester hours in public law or permission of graduate adviser
Practical methods of research as applied to specifically selected problems in areas of Administrative, Constitutional, and/or International Law. Problems studied will correspond to those encountered by government employees, officials, and planners at the national, state, and local levels. Emphasis will be varied from semester to semester in accordance with the background and objectives of the students enrolled.

**865V 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.

**867V Seminar in Political Theory**
3 hours
PREREQ: Six hours of Political Theory or permission of graduate adviser
Analysis of selected topics in normative, empirical and ideological political theory and their impact upon practitioners of politics.

**869V 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.

**861V Seminar in Comparative Politics: Emerging Areas**
3 hours
PREREQ: Permission of graduate adviser
Readings, analysis and writing on topics of general and particular aspects of the governments, politics, and political problems of emerging nations.
Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.

890V 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 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.

899V 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 Sociology.) 1 hour per sem. to 3 credit hours. Topics determined in conference with the Psychology Department.

899V Independent Study in Topics on Psychology
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.) 1 hour per sem. to 3 credit hours. Topics determined in conference with the Psychology Department.

899V Independent Study in Topics on Industrial Psychology
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.) 1 hour per sem. to 3 credit hours. Topics determined in conference with the Psychology Department.

899V Independent Study in Topics on Industrial Psychology
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.) 1 hour per sem. to 3 credit hours. Topics determined in conference with the Psychology Department.

PSYCHOLOGY (PSY)
Graduate Faculty Members:
Professors Gordon Becker, Robert Ellinon, Francis Hurst, Gilbert Meier, John Newton (Chairman), D. T. Pedrini, James Williams; Associate Professors Kenneth Deffenbacher, Norman Hamm, Shelton Hendricks, Clemm Kessler, C. Raymond Millimet, Harry Salsow, Fred Strider, Richard Wikoff; Assistant Professors Kenneth Berry, Evan Brown, Robert Innes, Richard Kohlen, Joseph LeVoie.

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. 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 904 (Proseminar in Learning)
B. Psychology 906 (Proseminar in Development)
II. A. Psychology 921 (Proseminar in Perception)
B. Psychology 923 (Proseminar in Physiological Psychology)
III. A. Psychology 910 (Proseminar in Analysis of Variance)
B. Psychology 911 (Proseminar in Factor Analysis)
IV. A. Psychology 943 (Proseminar in Personality)
B. Psychology 944 (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. 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. 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 904 (Proseminar in Learning)
B. Psychology 906 (Proseminar in Development)
II. A. Psychology 921 (Proseminar in Perception)
B. Psychology 923 (Proseminar in Physiological Psychology)
III. A. Psychology 910 (Proseminar in Analysis of Variance)
B. Psychology 911 (Proseminar in Factor Analysis)
IV. A. Psychology 943 (Proseminar in Personality)
B. Psychology 944 (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. 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.

Special Programs Leading to Certification in School Psychological Services

Psychological Assistant
Students who are pursuing work toward the M.A. or M.S. in educational psychology may simultaneously complete requirements for endorsement in Nebraska as a Psychological Assistant. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they make application for degree candidacy in order to ensure that required courses are included in the plan of study for the degree. In any event, students must have been accepted in this program before enrolling in Psychology 853V or 854V. Application should be made to the Psychology Department and three letters of recommendation are required.

School Psychologist
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 Psychology Department, accompanied by a vita including names of three individuals willing to write reference letters. Students who have not been admitted to the Graduate College for their Master's degree program must also...
apply to the Director of Admissions and supply two official transcripts of all previous college work and scores for the Graduate Record Examination Aptitude Test and Psychology Test. Before a final decision is made concerning admission, the applicant must be interviewed by the Chairperson 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. These 30 hours must be taken after the applicant has been accepted into the program and received the Master's degree. No more than three hours of practicum credit may 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 programs according to the subject matter areas below. It is expected that some of these required courses will have been taken as part of the Master's program (or, in some cases, an undergraduate program). In this event, other course work in psychology or education may be elected to make a total of 30 semester hours. All required courses must be completed, however, even if the total exceeds 30 hours of post-master's work. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of elective courses. However, final decision on the appropriateness of a program rests with the Psychology Department.

I. Required Courses in Psychological Methods

Psych 873V - The Profession of Psychology
Psych 875V - Individual Tests I
Psych 877V - Individual Tests II
Psych 878V - Psychological and Educational Testing
Psych 879V - Practicum in Psychology
Psych 881V - Advanced Educational Psychology
Psych 883V - Personality Assessment
Psych 912V - Topical Seminar in School Psychology (3-6 hours)

One of the following two courses:
Psych 855V - Introduction to Therapeutic Techniques with Children
Psych 857V - Behavior Modification

One of the following four courses:
Psych 853V - Introduction to Therapeutic Techniques with Children
Psych 855V - Psychopathology of Exceptional Children
SPED 860V - Teaching the Exceptional Child
SPED 862V - Introduction to the Mentally Subnormal Child

II. Required Professional Education Courses

COUN 802V - Counseling Practices
EDAD 835V - Foundations of Educational Administration and Supervision
SED 830V - Emerging School Curriculum

III. Required Supporting Work

One to three courses in basic psychology (outside the student's area of specialization) and/or one to three courses from Special Education, Counseling and Guidance, or other professional education fields beyond those specifically named as requirements.

Course Descriptions

401M 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.

600M Environmental Psychology
PREREQ: Psychology 101 or permission
A study of the effects of natural and artificial environments on human behavior. Particular emphasis on effects of spatial arrangements and their interactions with social distance, territoriality, privacy and such.

601M Research Design
PREREQ: Psychology 213 (or equivalent)
A methodological approach to research in the behavioral sciences emphasizing the manipulation of psychological variables leading to the control and understanding of psychological phenomena.

601Q Research Seminar
PREREQ: Psychology 213 (or equivalent)
A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in the social behavior sciences.

631M Animal Behavior (Same as Biology 6251M)
PREREQ: Psychology 101 and Biology 175 or permission
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.

631M Psychological and Educational Testing
PREREQ: Psychology 101 and 213 or 231
The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity.

633M Individual Differences
PREREQ: 9 hours of psychology, including Psychology 101 and Psychology 213 (or equivalent)
A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical traits, and environment in causing individual differences in mental traits.

643M Psychoanalytic Theories of Personality
PREREQ: Psychology 343 and Psychology 213 (or equivalent)
An integrative course designed to acquaint the student with the Freudian and psychoanalytic viewpoints. Research in anxiety, defense mechanisms, sleep, and dreams is emphasized.

644M Abnormal Psychology
PREREQ: Psychology 343 and Psychology 213 (or equivalent)
A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy, and prognosis of disorders are considered. A research approach is emphasized.

845M Personality Theories
PREREQ: Psychology 343 or permission
A comparative approach to the understanding of personality theory emphasizing the conflict, fulfillment, and consistency approaches to personality.
047M Advanced Counseling Theory
PREREQ: Psychology 344 or Cnsc 620V or Psychology 845M
This course emphasizes the relation between diagnosis and treatment
with a Jungian approach embracing psychology, literature, philosophy,
and theology. Readings are emphasized.

852M Psycholinguistics (Speech 852M and Anth 852M)
PREREQ: none
A discussion of the literature concerned with how such psychological
variables as perception, learning, memory, and development relate to
the linguistic variables of sentence structure, meaning, and speech
sounds.

650M Retardation
PREREQ: Psychology 851M or Psychology 213 and Psychology 344 or
845M
This course considers significantly sub-average intellectual functioning
originating during the developmental period and associated with impair­
ment in adaptive behavior. Research is emphasized.

660M Psychology of Exceptional Children
PREREQ: Psychology 344 or 351
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.

661M Engineering Psychology
PREREQ: Psychology 101 and permission of instructor
The methods of experimental psychology are discussed as they relate to
problems of designing machines for efficient human use.

662M Psychological Aspects of Industrial Training and Education
PREREQ: Psychology 363 and Psychology 313 (or equivalent)
A study and application of the theories, techniques, and procedures
involved in preparing individuals for their jobs through training and
education.

663M Techniques of Programmed Instruction
PREREQ: Psychology 101 and permission of instructor
An introduction to methods and technology in construction and use of
learning machines, with special emphasis on computer-assisted
instruction.

900M Problems in Psychology
PREREQ: 15 hours of psychology and permission of the department.
May be repeated for up to six hours total credit.
A faculty supervised research project, involving empirical or library
work and oral or written reports.

901M Research Problems in Physiological Psychology
PREREQ: Psychology 323 and permission of instructor
An individualized introduction to the techniques and methodology used
in the physiological psychology laboratory.

905V The Profession of Psychology
PREREQ: none
A one-hour non-credit course for graduate students in psychology.
Intended to familiarize the beginning graduate student with the profession
of psychology including such topics as ethics, professional organizations,
job and educational opportunities, the use of reference materials, licensing
and certification, and other relevant material.

920V Introduction to Counseling Theories (Coun 820V)
PREREQ: Education 800M or department permission
Study of contemporary theories of counseling, the counseling process
and methods.

932V Tests and Measurements
PREREQ: Psychology 313 (or equivalent)
A study of the theoretical and practical problems related to the develop­
ment and use of psychological tests covering such topics as measure­
ment, test development, standardization, reliability, validity, and inter­
pretation.

850V Seminar in Communication Theory (Speech 850V)
PREREQ: Psychology 213 (or equivalent) or permission of instructor
This seminar is concerned with current approaches to the study of communica­tion
with emphasis on theoretical models and their application to various profes­
sional interests.

851V Advanced Educational Psychology
PREREQ: Psychology 351
A study of the principles of learning and testing and their applications
to problems of contemporary education, particularly to those problems
existing in the classroom.

852V Individual Tests I
PREREQ: 15 graduate hours of psychology including completion of all
required courses for the Master's degree and Psychology 451 (or
832V) and admission to either Psychological Assistant or School Psy­
chologist Program. Administration, scoring, standardization, and inter­
pretation of individually administered tests with special emphasis upon
intelligence testing.

854V Individual Tests II
PREREQ: 15 graduate hours of psychology including completion of all
required courses for the Master's degree and Psychology 431 (or 832V)
and admission to either Psychological Assistant or School Psycholog­
ist Program. Administration, scoring, standardization, and interpretation of individ­
ually administered tests with special emphasis upon intelligence testing.

855V Introduction to Therapeutic Techniques with Children
PREREQ: Permission of instructor
The purpose of this course is to become familiar with play therapy, a tech­
ique of changing the adjustment and behavior of children. The
history and methods of and the research with play therapy are con­
sidered.

856V Learning in Children
PREREQ: none
A course dealing with learning in infants, children and, for comparison
purposes, adults. Research relevant to developmental differences in
learning ability will be emphasized. Content areas included will be
learning methodology with infants and children, learning in infancy,
probability learning, transposition and reversal shift learning, imprinting,
habituation and imitation learning.

857V Behavior Modification
PREREQ: Psychology 302 and 343, or permission of instructor
A course in the techniques, rationale, and research literature of changing
behavior through reinforcement procedures. Particular attention will be
paid to behavior including retarded children, behavior problems in
school, and the behavior of the mentally disturbed.

858V Linguistic and Cognitive Development
PREREQ: Psychology 352 (or equivalent) or permission of instructor
A course which provides the student with in-depth coverage of the
research literature on social and personality development in infancy
and childhood. Research methods and theory, as they apply to social
and personality development, will be emphasized throughout the course.
All students will be expected to design and conduct a mini-observa­
tional study in the area of social and personality development.

859V Social and Personality Development
PREREQ: none
A course which provides the student with an in-depth coverage of the
research literature on social and personality development in infancy
and childhood. Research methods and theory, as they apply to social
and personality development, will be emphasized throughout the course.
All students will be expected to design and conduct a mini-observa­
tional study in the area of social and personality development.

866V Clinical Child Psychology for School Psychologists
PREREQ: Permission
(Cross-listed with Psychiatry 368 at the University of Nebraska College
of Medicine)
An advanced course in child psychology, with emphasis upon diagnostic
classifications, remediation of approaches and techniques of assessment,
and correction of problem behavior in the school age child.

THE GRADUATE BULLETIN

UNIVERSITY OF NEBRASKA AT OMAHA
899 Thesis 1-6 hours

904 Proseminar: Learning (Newton) 3 hours
PREREQ: Permission of instructor
A course providing a theoretical and practical understanding of learning in humans and animals.

905 Advanced Seminar in Learning (Newton) 3 hours
PREREQ: Psychology 301 or permission of instructor
A course considering theories that have most directly influenced the contemporary study of learning.

910 Proseminar: Analysis of Variance 3 hours
PREREQ: Permission of instructor
A course on the analysis of variance that is discussed in the analysis of variance model.

911 Proseminar: Perception 3 hours
PREREQ: Permission of instructor
A course discussing perception, emphasizing the analysis of variance model.

913 Proseminar: Multiple Regression and Factor Analysis 3 hours
PREREQ: Permission of instructor
A course on multiple regression and factor analysis.

921 Proseminar: Perception (Defenbach) 3 hours
PREREQ: Permission of instructor
A seminar on perception, discussing perceptions and problems.

923 Proseminar: Physiological Psychology (Hendricks) 3 hours
PREREQ: Permission of instructor
A seminar on physiological psychology, discussing physiological processes underlying behavior.

926 Seminar in Developmental Psychology (Hendricks) 6-9 hours
PREREQ: completion of the psychology course sequence (or equivalent) and permission of instructor
A seminar on development of individuals and groups in various settings.

936 Seminar in Applications of Non-Verbal Communication Theory (Speech 946 & 947) 3 hours
PREREQ: Course in research methods or permission of instructor
A seminar on non-verbal communication, focusing on specific applications.

940 Seminar in Small Group Communication (Speech 946 & Sociology 940) (J. Brildert) 3 hours
PREREQ: Speech 901V (or equivalent), Psychology 213 (or equivalent) or permission of instructor
A seminar on small group communication and leadership, discussing research procedures and approaches to teaching.

943 Proseminar: Personality (Pedrin) 3 hours
PREREQ: Permission of instructor
A seminar on personality variables in behavior, focusing on a historical approach.

944 Proseminar: Social Psychology (Becker, Kessler) 3 hours
PREREQ: Permission of instructor
A course on social psychology, discussing topics in social psychology.

945 Experimental Social Psychology (Becker, Kessler) 4 hours
PREREQ: Psychology 213 (or equivalent), 345, 361 or 321 with laboratory, and permission of instructor
A discussion of specific advanced topics that are recognized as important in social psychology.

950 Proseminar: Development Psychology (Hendricks) 3 hours
PREREQ: Permission of instructor
A seminar on the development of individuals and groups in various settings.

955 Personality Selection and Assessment (Kessler) 3 hours
PREREQ: An introductory course in group testing; two courses in individual testing; basic statistics, and permission
A course dealing with the techniques for evaluation of personality characteristics and intended for advanced graduate students in psychology who are enrolled in a program of studies leading to certification as a school psychologist.

959 Seminar in Experimental Child Psychology (Hendricks) 3-6 hours
PREREQ: completion of the prosemian sequence (20 hours) and permission of instructor
A seminar on experimental child psychology, discussing topics in the psychology of children.

960 Seminar in Industrial Psychology (Kessler) 3 hours
PREREQ: Psychology 213 (or equivalent)
A seminar on industrial psychology, focusing on the psychology in industry.

965 Experimental Social Psychology (Becker, Kessler) 4 hours
PREREQ: Psychology 213 (or equivalent), 345, 361 or 321 with laboratory, and permission of instructor
A seminar on the psychology of social groups, focusing on the psychology of social groups.

970 Topical Seminar in Psychology (Hendricks, Kessler) 1-6 hours
PREREQ: admission to school psychology programs
A seminar on specific advanced topics in psychology, emphasizing the analysis of variance model.

975 Topical Seminar in Psychology (Becker, Kessler) 1-6 hours
PREREQ: admission to school psychology programs
A seminar on specific advanced topics in psychology, emphasizing the analysis of variance model.

PUBLIC ADMINISTRATION

Graduate Faculty Members:
Professors Harry W. Reynolds, David C. Scott (Chairman)

MASTER OF PUBLIC ADMINISTRATION

This is a professional graduate degree 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 general 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 credit hours granted for service in civilian public service of 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, 840V, 844V, 846V; and Economics 856M. The optional courses may be selected from Political Science 832V, 847V; Public Administration 843M, 845M, 849V, 851V; Economics 850M, 860V, 822V, 880V, 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.

Public Administration

840M Public Budgeting 3 hours
A study of the processes and procedures involved in making budgets for governmental institutions.

841M Public Personnel Management 3 hours
A 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.

843M 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.

845M 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.

846V 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.

University of Nebraska at Omaha

842V 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.

845V 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 governmental agencies. The emphasis is less in terms of description of processes than in terms of identifying and exploring solutions to problems.

847V 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.

880V Urban Seminar in Metropolitan Planning and Development 3 hours
PREREQ: Geo 121 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.

885V Social Work 3 hours
Specially planned readings in Public Administration for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is admitted by the Department to be capable of pursuing a highly independent course of study.

886V Social Work 3 hours
Maximum of 3 to be granted upon completion of written report on internship. Internship in some government: national, state, local.

THE PROFESSION OF SOCIAL WORK

Social work is one of the "helping professions" concerned with the quality of human life. Specifically, the social worker is concerned with man's ability to function meaningfully and effectively in transaction with his environment (i.e., his family, friends, associates, and the community at large). The social worker brings systematized knowledge to bear on his dealings with people individually, in families, in other groups and collective associations, with communities, societies, and organizations with a view to helping in the resolution of problems which cause stress in social transaction.

In these endeavors, social workers are employed in public and private counseling agencies and services, medical settings, schools, residential and community agencies providing care for the mentally ill and retarded, court and correctional agencies, community planning, and development agencies and programs. Their endeavors and interventions are designed to provide more effective functioning of society as it struggles to "provide for the general welfare" as well as to help the people, families, groups, and institutions within the society toward self fulfillment.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SOCIAL WORK

1. A minimum of one year in residence. The entire program requires a minimum of two full academic years.
2. A minimum of 55 credit hours in graduate social work study, of which:
(a) Not less than 25 hours of approved courses must have been completed in the University of Nebraska.
(b) Not less than 14 hours must be in field work.
(c) All courses must be approved by the School for each individual.
(d) Five hours may be selected in academic graduate courses outside the Graduate School of Social Work.
3. An approved individual or group research project written in the course of the second-year research seminar, or its equivalent.

The course leading to a Master of Social Work degree normally requires four semesters of full-time study.

There are two types of courses:
1. "Core" courses, which are required of all students.
2. "Elective" courses, chosen by students in addition to required core courses.

The type and credit value of each of the courses is indicated in the course description in this bulletin. Courses offered by the School are subject to change.

The total number of credit units required is a minimum of 55 credit hours; currently they may be distributed as follows:

### 1. FIRST YEAR PROGRAM

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Core</th>
<th>Elective</th>
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</thead>
<tbody>
<tr>
<td>Social Work Practice I (SW 830)</td>
<td></td>
<td>X</td>
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<tr>
<td>Practicum I (SW 841)</td>
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<td>X</td>
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<tr>
<td>Psychodynamics of Human Behavior (SW 825)</td>
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<td>X</td>
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<tr>
<td>Public Welfare Organization (SW 857)</td>
<td></td>
<td>X</td>
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<tr>
<td>Social Interaction for Social Work (SW 827)</td>
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<tr>
<th>Spring Semester</th>
<th>Core</th>
<th>Elective</th>
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<tbody>
<tr>
<td>Social Work Practice II (SW 831)</td>
<td></td>
<td>X</td>
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<tr>
<td>Psychodynamics of Human Behavior (SW 825)</td>
<td></td>
<td>X</td>
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<tr>
<td>Physical Components of Social Functioning (SW 822)</td>
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<td>X</td>
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<tr>
<td>Social Services for Children and Families (SW 885)</td>
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<tr>
<td>Research Methods in Social Work (SW 883)</td>
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### 2. SECOND YEAR PROGRAM

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Core</th>
<th>Elective</th>
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<tbody>
<tr>
<td>Casework III (SW 913) or Social Group Work III (SW 911)</td>
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<tr>
<td>Practicum III (SW 907A)</td>
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<tr>
<td>Community Planning and Organization (SW 975)</td>
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<tr>
<td>Administration in Social Work (SW 965)</td>
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<td>X</td>
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<tr>
<td>Supervision in Social Work (SW 964)</td>
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<td>X</td>
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<tr>
<td>Research Other Than Thesis (SW 965)</td>
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<td>X</td>
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<tr>
<td>Special Studies in Social Welfare (SW 963)</td>
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<table>
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<tr>
<th>Spring Semester</th>
<th>Core</th>
<th>Elective</th>
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<tbody>
<tr>
<td>Advanced Seminar in Social Work Practice (SW 889)</td>
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<td>X</td>
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<tr>
<td>Practicum IV (SW 907B)</td>
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<tr>
<td>Public Social Welfare Policy (SW 861)</td>
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<tr>
<td>Orientation to Clinical Psychology (SW 855)</td>
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<td>X</td>
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<tr>
<td>Social Work Practice in Child Welfare (SW 916)</td>
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<tr>
<td>Delinquency and Its Treatment (SW 924)</td>
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<tr>
<td>Special Studies in Social Welfare (SW 966)</td>
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</tbody>
</table>

### COURSES OF INSTRUCTION

Courses in the 400/800 series are offered for undergraduate credit and also for graduate students desiring to increase their knowledge of social work and social welfare programs without engaging in the regular social work training program. Courses in the 600 and 900 series carry graduate credit and are not open to undergraduates except by permission of the Dean of the Graduate College.

The numbers in parentheses preceding the course title indicate numbers under which courses were offered in 1970-71.

**PREREQUISITIES—** General prerequisites for courses in the 600 series are a bachelor's degree and training in certain definite subjects as outlined under requirements for admission.

**Human Behavior and the Social Environment—Graduate**

- **822 (332). Physical Components of Social Functioning (1-5 cr) (Required)**
  - PREREQ or parallel: SW 825 or permission
  - Physical factors, both normal and abnormal, which are related to social functioning and which are known to affect social role performance. This information provides a part of the essential knowledge base of social work practice.

- **823 (325). Psychodynamics of Human Behavior I (2 cr) (Required)**
  - PREREQ: 3 hrs of Psychology; parallel: SW 830, SW 841 or by permission
  - Dynamics of development of the personality from infancy to the preadolescent years with both normal development and deviation considered.

- **825 (326). Psychodynamics of Human Behavior II (3 cr) (Required)**
  - PREREQ: SW 825, SW 831, SW 841 or parallel or permission
  - Dynamics of development of the personality from childhood through old age with normal development and deviation considered at all levels. This course, together with SW 823, enables the social work student to evaluate manifestations of normality and abnormality as well as the potential for pathology in dealing with social dysfunctioning.

- **827. Social Interaction for Social Work (3 cr) (Required)**
  - Parallel: SW 823 and SW 830 or permission
  - Consideration of selected structures and processes of social interaction and the way in which interaction impinges upon and affects the people involved in the processes. Consideration will be given to the family, small group, community, and several models of social organization and control.

- **855. Orientation to Clinical Psychology (1 cr) (Elective)**
  - PREREQ: SW 842 or permission
  - A description of the techniques of the clinical psychologist which are related to the integrated functioning of psychologists and social workers in the mental health team.

**Social Welfare Policy and Services—Graduate**

- **857 (357). Public Social Welfare Organization (2-3 cr) (Required)**
  - The structure of public social service in the United States; principal programs of service and patterns of administrative organization.

- **865 (355). Social Services for Children and Families (2 cr) (Required)**
  - PREREQ: SW 857 or permission
  - Consideration of society's response to the social needs of children and their families and of selected social welfare programs designed to strengthen, supplement, or to substitute for parental care. Attention is given to social policy and related legal aspects of these programs, to the roles of social workers in the organization and development of these programs, and to social policy toward improved ways of meeting social needs of children and families.

- **951 (361). Public Social Welfare Policy (2 cr) (Required)**
  - PREREQ: SW 857 or equivalent
  - Basic considerations in public welfare such as government responsibility, categorical programs; the means test; legal responsibility of relatives; the citizen's right to assistance; work relief, etc., studied and critically evaluated.
Social Work Practice—Graduate

830 (330). Social Work Practice I (4 cr) (Required)
Parallel: SW 841 or permission
Consideration is given to professional social work practice and its place within society by study of the history of its development, theoretical knowledge, and its philosophical base. Conceptualizations, principles, and theories which undergird its practice are developed plus conscious application of social work theory to specific examples derived from social work practice.

831 (331). Social Work Practice II (3-1 cr) (Required)
PREREQ: SW 830; parallel: SW 842 or permission
Consideration of the common base of social work practice with emphasis on consideration of the common base of social work practice with emphasis on the assessment of social situations leading to choices of intervention action from a repertoire of preventive approaches. The worker’s role as the change agent in this process is developed through continuous application of basic social work practice theory as utilized with individual, group, organization, and community client systems.

832 (332). Social Work Practice in Mental Health (2-3 cr) (Elective)
PREREQ: SW 831, SW 842 and SW 828 or equivalent
Consideration of social work practice in mental health with special emphasis on the range of foster care services from family foster home to institutional care.

834 (324). Social Work Practice in Child Welfare (2-3 cr) (Elective)
PREREQ: SW 828, SW 842, or permission
Consideration of the practice of social work in child welfare with special emphasis on current trends, principles, and practice of preventive programs in the field today.

932 (362). Administration in Social Work (2-3 cr) (Required)
PREREQ: SW 841 or permission
Administration as a process involving the total agency. Governmental and voluntary agencies. Problems encountered in administration of social welfare services.

936 (364). Supervision in Social Work (2-3 cr) (Elective)
PREREQ: Second year graduate standing or by permission
Basic teaching and learning theories applied to social work practice including intensive study of principles, skills, and techniques of the supervisory process, as well as differential use of the supervisory role within teams, experienced staff or volunteers.

937 (375). Community Planning and Organization (2 cr) (Required)
Importance of social process in the community; existing organizations to meet social needs; steps in creating a social plan for the community in relationship to the worker and the agency.

901 (381). Social Group Work III (2-3 cr) (Required)
PREREQ: SW 831, SW 841, or by permission
The development of group process in areas of greater complexity in the development and treatment for both the individual and group. Specific aspects of practice in a variety of settings and fields of practice including residential treatment facilities.

988 (388). Advanced Seminar in Social Work Practice (2-3 cr) (Required)
PREREQ: SW 832 or SW 841, or permission
Consideration of trends, problems, and issues in current social work practice. Exploration of innovations in the delivery of services and of changing concepts of social work functions.

Social Welfare Research—Graduate

899 (399). Research Methods in Social Work (2 cr) (Required)
PREREQ: Permission of Director and instructor
Collection, analysis, and presentation of social work data, including only the commonly used statistical devices; general types and methods of research related to social work; important sources of assembled data relative to social welfare; research in relation to agency administration; sources of support for social research.

999 (399). Master’s Thesis (6-10 cr) (Elective)
PREREQ: SW 843 or equivalent
Supervised individual research for second year students. Students meeting the thesis alternative must meet research requirements for the degree of Master of Social Work.

895-898 (393-396). Research Other Than Thesis (2 cr each) (Required)
PREREQ: SW 843 or equivalent
Individual research projects for second year students taking this alternative to meet research requirements for the degree of Master of Social Work. Attendance at regular seminars may be required.

Practicum (Field Instruction)

841 (341). Social Work Practicum I (3-4 cr) Staff and Assistants in Field Instruction (Required)
Parallel: SW 830 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

942 (342). Social Work Practicum II (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 842 or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

973 (346). Social Work Practicum IV (3-4 cr) Staff and Assistants in Field Instruction (Required)
PREREQ: SW 847A or permission
Supervised field practice with individuals, groups, or communities in selected social welfare agencies.

Special Studies—Graduate

503 (382). Special Studies in Social Welfare (2-4 cr) (Elective)
PREREQ: Graduate standing and permission
Special study in depth in selected areas of social work curriculum.

SOCIOLOGY (SOC)

Graduate Faculty Members:
Professors George Barger (Chairman), Wayne Wheeler;
Associate Professor John R. Nye;
Assistant Professors William T. Clute, Elaine Hess, Merlin J. Hofstetter, Mark O. Rousseau, Robert B. Simpson;
Graduate Lecturers Harry H. Crockett, Wilfred Logan
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 supervised work practicum related to his academic area of concentration, and write an acceptable report on the experience.

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

### Course Descriptions

#### Anthropology

**821M Cultural Anthropology**  
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.

**822M North American Archaeology**  
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.

**852M Psycholinguistics**  
(Same as Psychology 852M and Speech 852M)  
PREREQ: Graduate standing  
A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech sounds.

#### Sociology

**801M Social Control of Behavior**  
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 behavior in the context of socially defined "fields."

**802M Collective and Exchange Behavior**  
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, politics, and social movements.

**803M Advanced General Sociology**  
PREREQ: Graduate. Not open to anyone who has recent credit in Sociology 161. (DOES NOT CARRY GRADUATE CREDIT IN SOCIOLOGY)  
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**  
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.

**811M Applied Social Gerontology**  
PREREQ: Graduate standing and permission of instructor  
An introduction to social gerontology with a special emphasis upon the effects of aging on social institutions and social participation and an examination of practice-oriented implications.

**812M Urban Geography (Same as Geography 412)**  
PREREQ: Graduate  
A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, and the comparative study of cities.

**813M Sociology of Deviant Behavior**  
PREREQ: Graduate  
A theoretical analysis of the relation of deviant group behavior and subcultures to community standards of conventional behavior as expressed in law and norms.

**814M Urban Sociology**  
PREREQ: Graduate  
A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.

**815M American Family Problems**  
PREREQ: Graduate  
A theoretical treatment of the family as a social institution outlining the essential functions it performs for its members and the society. II An analysis of failures of function and attendant problems in a variety of American families: parent-youth tension, problems of sexual adjustment, role conflicts, multi-problem families, desolation, divorce, others.
851M Methods of Social Research (I, II) 3 hours
PREREQ: Graduate
Relationships of theory, method, and the data in sociological investigations. Major techniques and instruments employed in social research, how developed, and where appropriately used. Formulation of research problems, use of statistics in analysis. Practical problems and limitations.

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 sub-cultural interpretations, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations. (Same as Speech 853M).

862M Complex Social Organizations (III) 3 hours
PREREQ: Graduate
Analysis of social structure in complex organizations, processes involved in the integration and disintegration of complex social organizations. An introduction to organizational analysis in medical, military, governmental, educational, and business settings. Implications of large-scale bureaucratization for social functioning.

671M Development of Sociological Theory (I) 3 hours
PREREQ: Graduate
An intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. Stress is placed on the development of sociology as a science with illustrative materials drawn from the established works of recent decades although backgrounds to these are traced to their ancient and medieval antecedents where applicable.

672M Contemporary Sociological Theory (II) 3 hours
PREREQ: Graduate
A thorough and detailed presentation of a major theoretical integration of contemporary sociological research and with shorter descriptive presentations of alternative positions indicating similarities and differences. Principles of theory construction and a review of major sociological concepts and writers.

673M Social Change (II) 3 hours
PREREQ: Graduate
A discussion of the theories and the basic models of social change illustrated by use of examples from contemporary and historical data. Emphasis is placed upon understanding causes and effects of social processes current in American society and the response of the individual to these.

683M Sociology of Religion (I) 3 hours
PREREQ: Graduate
Analysis of religious behaviors from a sociological and social-psychological perspective, and utilizing both theoretical and empirical materials. The class is designed as an introductory approach to the sociology of religion, and the first in a two-step sequence, undergraduate and graduate.

699M Independent Study 1-3 hours
PREREQ: Graduate
Guided reading in special topics under the supervision of a faculty member.

*804V General Seminar in Sociology 3 hours
PREREQ: Graduate
This seminar, required of departmental graduate students, gives a basic orientation to the profession, its leading figures, social problems, organizations, and university departments. It emphasizes critical discussion of issues in the discipline and selected substantive problems of sociology.

*805V Seminar in Social Psychology 3-6 hours
PREREQ: Graduate
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.

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

Professors John K. Brillhart (Chairman), Elton S. Carter, Edwin L. Claytor, Mary E. Williamson

Master of Arts
An applicant for graduate study in Speech (Interpersonal Communication, or Theatre) must present a minimum of 15 undergraduate semester hours in appropriate courses in communication arts and sciences beyond the introductory course, including advanced work in the area in which he intends to concentrate his graduate program. Deficiencies must be made up during the first year of graduate study.

All students who intend to become degree candidates must complete core requirements consisting of one research course (Speech 860V), one theory course, and one additional course in the area of intended major emphasis. As soon as possible after completing the core requirements, the student must schedule and participate in an oral candidacy and placement examination conducted by the Graduate Program Committee or the student's Graduate Committee (if appointed). Following this examination, the decision will be made as to whether the student will follow a thesis non-thesis program and a program of studies will be submitted to the Graduate College. The student must then complete either of the following plans of study approved for him or her:

Option I: Successful completion of 24 semester hours of course work including at least 9 hours in 800V and 900 level classes; plus a thesis (or credit hours) based on a proposal approved by the student's committee, defended orally before the committee; plus an oral examination over the student's field(s) of study.

Option II: Successful completion of 20 semester hours of course work including at least 18 hours in 800V and 900 level classes; plus a thesis (credit hours) based on an independent research or creative project in writing, oral or written, presenting a written examination over his area of major emphasis and minor or area studies, judged by a faculty committee.

Course Descriptions

01M Advanced Projects in Speech (I, II) Each 1-3 hours
02M Thesis 1-6 hours
240 Seminar in Special Group Communication (Same as Speech 704 and Psychology 704) 3 hours
PREREQ: Speech 801V 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)

SPEECH (SPCH)

Graduate Faculty Members:

Professors John K. Brillhart (Chairman), Elton S. Carter, Edwin L. Claytor, Mary E. Williamson

Master of Arts
An applicant for graduate study in Speech (Interpersonal Communication, or Theatre) must present a minimum of 15 undergraduate semester hours in appropriate courses in communication arts and sciences beyond the introductory course, including advanced work in the area in which he intends to concentrate his graduate program. Deficiencies must be made up during the first year of graduate study.

All students who intend to become degree candidates must complete core requirements consisting of one research course (Speech 860V), one theory course, and one additional course in the area of intended major emphasis. As soon as possible after completing the core requirements, the student must schedule and participate in an oral candidacy and placement examination conducted by the Graduate Program Committee or the student's Graduate Committee (if appointed). Following this examination, the decision will be made as to whether the student will follow a thesis non-thesis program and a program of studies will be submitted to the Graduate College. The student must then complete either of the following plans of study approved for him or her:

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01M Advanced Projects in Speech (I, II) Each 1-3 hours
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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)
851M Persuasion
PREREQ: Speech 101 and 3 hours psychology or sociology or permission
Basic principles and psychological processes underlying persuasive communication; a review of various sources, message, channel, and receiver variables and their influence on communication effectiveness.

852M Psycholinguistics
(Same as Psychology 855M and ANTH 852M)
PREREQ: Senior or graduate standing in Psychology or Speech or permission
A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech sounds.

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

862M Directing Forensics
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
PREREQ: Permission of the instructor
Theories and forms of interpretation from antiquity to the present; preparation and presentation of a recital.

991V Introduction to Research in Speech
PREREQ: Permission of the instructor
Basic methods, functions, and spirit of research; research methods in the arts and sciences of oral communication; preparation of a thesis proposal.

991V Seminar: Modern Public Address
PREREQ: Permission of the instructor
Studies in figures, movements and institutions prominent in modern public address. May be repeated.

991V College Debate Workshop
PREREQ: Graduate standing and permission
A comprehensive analysis of the current intercollegiate debate proposition. Also stresses methods of coaching debate and debate tournament management at the college level. Students taking this course may not also receive credit for Speech 862M, "Directing Forensics," toward a degree at UN-O.

970V Dramatic Theory and Criticism
PREREQ: Speech 220 or permission of instructor
For advanced students of dramatic literature. Important aspects of theories and criticism from antiquity to the present.

981V 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.

981V Technical Theatre Problems
PREREQ: Graduate standing and Speech 220, Speech 423, and Speech 428-B or permission
Research and dialogue in the aesthetics and physical results of the relationships between dramatic form, theatre architecture, and scenic design and lighting from historical and contemporary points of view.

985V Seminar in Play Direction
PREREQ: Graduate standing and permission
An in-depth study of the principles of play direction.

985V Seminar in Broadcasting
PREREQ: Graduate standing and permission
Substantive study into specialized areas and modes of broadcasting, content will vary according to the individual semester being offered. Course may be repeated.

855V Seminar in Communication Theory
PREREQ: Basic Statistics or by permission of instructor
Analysis of current approaches to the study of communication, with emphasis on theoretical models and their application to various professional interests.

PREREQ: Graduate standing

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

940 Seminar in Small Group Communication
(Same as Sociology 940 and Psychology 940)
PREREQ: Speech 801V 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.)

955 Seminar in Applications of Non-Verbal Communication Theory
(Same as Secondary Education 950 and Psychology 950)
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. (Brilhart, B.)
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