The University of Nebraska at Omaha

Graduate Catalog
1993-94
### ACADEMIC CALENDAR, 1993 - 94

#### FIRST SEMESTER, 1993-94

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 30</td>
<td>Last day for submitting credentials for admission to Graduate Studies for First Semester, 1993-94.</td>
</tr>
<tr>
<td>July 5</td>
<td>Holiday. University closed.</td>
</tr>
<tr>
<td>July 19 - Aug. 6</td>
<td>Orientation.</td>
</tr>
<tr>
<td>August 16-19</td>
<td>General Registration.</td>
</tr>
<tr>
<td>August 20, 23-27</td>
<td>Change of class schedule.</td>
</tr>
<tr>
<td>August 23</td>
<td>First Semester begins at 7:00 a.m.; both day and evening classes.</td>
</tr>
<tr>
<td>August 27</td>
<td>Last day until 4:00 p.m. to: add a course to student's schedule; add an &quot;Audit&quot; course; change to &quot;CR/NC&quot; grade in a course.</td>
</tr>
<tr>
<td>September 6</td>
<td>Holiday. University closed.</td>
</tr>
<tr>
<td>September 7</td>
<td>Vacation. No classes.</td>
</tr>
<tr>
<td>October 15</td>
<td>Last day for filing applications for degrees to be conferred in December.</td>
</tr>
<tr>
<td>November 5</td>
<td>Last day until 4:00 p.m. to: drop a course with a grade of &quot;W&quot;; change a course to &quot;Audit&quot;; change from &quot;CR/NC&quot; to grade registration in a course.</td>
</tr>
<tr>
<td>November 24-26</td>
<td>Thanksgiving Vacation. No classes.</td>
</tr>
<tr>
<td>November 27-28</td>
<td>University closed.</td>
</tr>
<tr>
<td>November 29</td>
<td>Classes resume at 7:00 a.m.</td>
</tr>
<tr>
<td>November 30</td>
<td>Last day for submitting credentials for admission to Graduate Studies for Second Semester, 1993-94.</td>
</tr>
<tr>
<td>December 10</td>
<td>Last day of classes.</td>
</tr>
<tr>
<td>December 11-17</td>
<td>Finals.</td>
</tr>
<tr>
<td>December 18</td>
<td>Commencement at 10:00 a.m.</td>
</tr>
</tbody>
</table>

#### SECOND SEMESTER, 1993-94

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>January 5-7</td>
<td>General Registration.</td>
</tr>
<tr>
<td>January 5</td>
<td>Orientation.</td>
</tr>
<tr>
<td>January 7, 10-14</td>
<td>Change of class schedule.</td>
</tr>
<tr>
<td>January 10</td>
<td>Second Semester begins at 7:00 a.m.; both day and evening classes.</td>
</tr>
<tr>
<td>January 14</td>
<td>Last day until 4:00 p.m. to: add a course to student's schedule; add an &quot;Audit&quot; course; change to &quot;CR/NC&quot; grade in a course.</td>
</tr>
<tr>
<td>March 18</td>
<td>Last day for filing applications for degrees to be conferred in May.</td>
</tr>
<tr>
<td>March 20-27</td>
<td>Spring Vacation. No classes.</td>
</tr>
<tr>
<td>March 28</td>
<td>Classes resume at 7:00 a.m.</td>
</tr>
<tr>
<td>March 30</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the First Summer Day Session, 1994 and for Evening Summer Session, 1994.</td>
</tr>
<tr>
<td>April 1</td>
<td>Last day until 4:00 p.m. to: Drop a course with a grade of &quot;W&quot;; change a course to &quot;Audit&quot;; change from &quot;CR/NC&quot; to grade registration in a course.</td>
</tr>
<tr>
<td>April 3</td>
<td>Honors Day</td>
</tr>
<tr>
<td>April 30</td>
<td>Last day of classes.</td>
</tr>
<tr>
<td>May 2-6</td>
<td>Finals.</td>
</tr>
<tr>
<td>May 7</td>
<td>Commencement at 10:00 a.m.</td>
</tr>
<tr>
<td>May 30</td>
<td>Holiday. University closed.</td>
</tr>
</tbody>
</table>

#### SUMMER SESSION, 1994

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 9 - June 24</td>
<td>Evening Session &quot;A.&quot;</td>
</tr>
<tr>
<td>May 31</td>
<td>Last day for submitting credentials for admission to Graduate Studies for Second Summer Session, 1994.</td>
</tr>
<tr>
<td>June 1-2</td>
<td>First Summer Session.</td>
</tr>
<tr>
<td>June 6-7</td>
<td>Change of class schedule.</td>
</tr>
<tr>
<td>June 27 - August 5</td>
<td>Evening Session &quot;C.&quot;</td>
</tr>
<tr>
<td>June 30</td>
<td>Last day for submitting credentials for admission to Graduate Studies for First Semester, 1993-94.</td>
</tr>
<tr>
<td>July 4</td>
<td>Holiday. University closed.</td>
</tr>
<tr>
<td>July 5</td>
<td>Last day for filing applications for degrees to be conferred in August, 1994.</td>
</tr>
<tr>
<td>July 11 - August 12</td>
<td>Second Summer Session.</td>
</tr>
<tr>
<td>August 13</td>
<td>Commencement at 10:00 a.m.</td>
</tr>
</tbody>
</table>

*The above dates are subject to change. Modifications in the academic calendar could be necessitated by emergency conditions.*

On the cover:

*Arts & Sciences Hall was opened for classes in 1938. The Georgian style structure has remained a symbol of the University of Nebraska at Omaha.*
This Graduate Catalog is provided by the Graduate Faculty of the University of Nebraska at Omaha in the hope that it will be a source of information to you on the graduate programs available through our University. We are proud of our University and of its programs. We encourage you to become acquainted with us and with the many resources available to the community through the University.

The lamp of learning which you can see on this page is the symbol of the scholarship and creative activity which characterizes every graduate program at the University of Nebraska at Omaha. It is this emphasis which distinguishes graduate studies from undergraduate studies.

We have tried to include as much information as possible, but obviously we could not include everything. If you have questions which are not answered here, please feel free to call on the Office of Graduate Studies, 204 Eppley Administration Building, telephone (402) 554-2341.

Margaret P. Gessaman, Ph. D.
Dean, Graduate Studies and Research
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Top Left: Modern computer technology is brought to the big screen in one of UNO’s new hi-tech classrooms. Neal Grandgenett, Ed.D, of the Department of Teacher Education, advises a student on computer programming usage in the classroom.

Top Right: The holdings of UNO’s University Library are contained on the GENISYS system. The computerized system makes for easy access to 600,000 books, more than 3,000 periodical titles and other materials in the library.

Bottom: UNO’s newly opened Fine Arts Building brings a different look to the western portion of the campus. The modern structure houses classrooms, a black-box theatre and art gallery — all part of the College of Fine Arts.
SUMMARIES OF GRADUATE DEGREES OFFERED

All graduate degrees are awarded by the University of Nebraska, with each campus having the responsibility of establishing and maintaining individual standards and requirements. All departmental requirements must be in accord with the policies of the Graduate College of the University of Nebraska.

Master of Arts or Master of Science (M.A., M.S.)
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 thesis program (including at least six hours of thesis and a minimum of 24 hours of non-thesis course work) 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 Arts for Teachers of Mathematics (M.A.T.)
This is a specialized graduate degree designed to provide secondary school mathematics teachers with more depth in mathematics combined with a core of relevant professional courses in education.

Master of Business Administration (M.B.A.)
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 Music (M.M.)
This is a professional graduate degree designed to provide further professional development for the performer or additional study for the music educator.

Master of Professional Accounting
This is a professional graduate degree designed to provide an educational experience as a basis for a career in professional accounting.

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

Master of Social Work (M.S.W.)
This is a professional graduate degree designed to provide knowledge, values and skills enabling the practitioner to intervene on behalf of individuals, families, groups and societal systems.

Specialist in Education (Ed.S.)
The Specialist in Education degree is an advanced graduate degree, involving a minimum of one year of study beyond the Master's degree. It is designed to offer additional study for professional educators.

DIRECTORY OF GRADUATE PROGRAMS
Departments or areas which have been authorized to offer graduate degrees and the degree(s) available in each are as follows:

Biology-M.A., M.S.
Business Administration-M.B.A.
Executive Master of Business Administration-M.B.A.
Civil Engineering-M.S.*
Communication-M.A.
Computer Science-M.A., M.S.
Counseling
  Agency Counseling-M.A., M.S.
  College Student Personnel Services-M.A., M.S.
  Gerontology-M.A., M.S.
  School Counseling/Elementary Level-M.A., M.S.
  School Counseling/Secondary Level-M.A., M.S.
Criminal Justice-M.A., M.S.
Dramatic Arts-M.A.
Economics-M.A., M.S.
Educational Administration and Supervision-M.S., Ed.S.
English-M.A.
Geography-M.A.
Gerontology, Social-M.A., Graduate Certificate
Health, Physical Education and Recreation-M.A., M.S.
History-M.A.
Mathematics-M.A., M.S., M.A.T.
Music-M.M.
Political Science-M.A., M.S.
Professional Accounting-
  Master of Professional Accounting
Psychology
  Educational Psychology-M.S.
  Industrial/Organizational Psychology-M.S.
  Psychology-M.A.
  School Psychology-Ed.S., Certificate
  Developmental Psychology-Ph.D.**
  Experimental Child Psychology-Ph.D.**
  Industrial/Organizational Psychology-Ph.D.**
Public Administration
  Public Administration-Master of Public Administration
  Urban Studies-M.S.
Social Work-M.S.W.
Sociology
  Applied Sociology-M.S.
  Sociology-M.A.
Special Education and Communication Disorders
  Mental Retardation-M.A.
  Speech-Language Pathology-M.A., M.S.
  Resource Teaching and Learning Disabilities-M.S.
  Teaching the Emotionally Disturbed-M.S.
  Teaching the Hearing Impaired-M.S.
  Teaching the Mentally Retarded-M.S.
Teacher Education
  Elementary Education-M.A., M.S.
  Secondary Education-M.A., M.S.
  Reading-M.S.
  Urban Education-M.S.
Additional departments or areas have been authorized to offer courses for graduate credit, a minor or a graduate certificate as follows:
Art-Minor
Black Studies
Chemistry-Minor
Engineering Mechanics-Minor*
Foreign Languages
French-Minor
German-Minor
Spanish-Minor
Home Economics-Minor*
Philosophy and Religion
Physics-Minor

* Application for admission to graduate studies in this program must be made through the Office of Graduate Studies at the University of Nebraska-Lincoln using the UNL Application for Admission form.

**The Ph.D. with specialization in Industrial/Organizational Psychology or Developmental Psychobiology is offered in conjunction with the Department of Psychology at the University of Nebraska-Lincoln. The Ph.D. with a specialization in Experimental Child Psychology is offered in conjunction with the Department of Educational Psychology at the University of Nebraska-Lincoln. Application for admission to any of these programs must be made through the Office of Graduate Studies on the UNL campus using a UNL Application for Admission form.

In addition to the formal programs listed above, the University offers graduate work leading to selected endorsements/certificates in professional education. Information can be obtained from the College of Education. Students also may pursue graduate work as Unclassified students simply for the purpose of personal or professional advancement if admitted to graduate studies by a department/area. The latter opportunity is limited, and the student should inquire before trying to enroll.

SUMMARIES OF POLICIES AND PROCEDURES IN GRADUATE STUDIES

The following summaries are presented in the hope that they will provide convenient checklists for students and for graduate student advisers. The summaries contain the critical information for students in all programs. Students should contact their advisers or the department/area Graduate Program Committee for specific information with regard to their programs. Details on all policies and procedures can be found in the text of this Graduate Catalog.

UNIVERSITY REGULATIONS

The student is advised to be familiar with the academic regulations of the University and of the Graduate College; the student is expected to assume full responsibility for knowing the relevant academic requirements. The student is also responsible for complying with all regulations of the University, the Graduate College and the departments of instruction as well as for meeting all degree requirements and deadlines.

NOTICE

Acceptance of registration by the University of Nebraska and admission to any educational program of the University does not constitute a contract or warranty that the University will continue to offer the program in which a student is enrolled. The University expressly reserves the right to change, phase out or discontinue any program.

The listing of courses contained in any University bulletin, catalog or schedule is by way of announcement only and shall not be regarded as an offer of contract. The University expressly reserves the right to:

- add or delete courses from its offerings,
- change times or locations of courses or programs,
- change academic calendars without notice,
- cancel any course for insufficient registrations, or
- revise or change rules, charges, fees, schedules, courses, requirements for degrees and any other policy or regulation affecting students, including, but not limited to, evaluation standards, whenever the same is considered to be in the best interests of the University.

CONTINUOUS ENROLLMENT

Every reasonable effort will be made to enable students who maintain continuous enrollment in pursuing their degrees to follow the policies and requirements in effect at the time of their original admission. To maintain continuous enrollment a student must do one of the following:

- enroll in both semesters of every academic year with summer enrollment optional or
- enroll only in the summer and in at least one summer session each year.

Students who have not maintained continuous enrollment and who have not been admitted to candidacy for the degree shall follow the regulations in the most recent Graduate Catalog.

Students who have not maintained continuous enrollment and who have been admitted to candidacy for the degree shall follow the regulations in the Graduate Catalog in effect at the time at which they were admitted to candidacy. All students are responsible for being aware of all changes in regulations which affect their graduate work.

STANDARDS OF GRADUATE STUDY

Graduate study deals with more complex ideas and demands more sophisticated techniques, searching analysis, creative thinking and time than undergraduate study. The research is extensive in both primary and secondary sources and a high quality of writing is expected.

A student seeking a graduate degree enjoys some privileges not available to other students and is obligated to follow some procedures not required of those pursuing other objectives. Careful and prompt attention to required procedures should be followed in pursuing a graduate
degree program to prevent unnecessary confusion and delay. Although advising is available to assist students, students alone are responsible for following the procedures and completing the steps required in a program. Failure of an adviser to remind a student of a requirement or deadline date is not acceptable as a basis for waiver of the requirement.

SUMMARY OF ADMISSION PROCEDURES

1. In order to enroll in graduate courses taken at the University, a student must have been admitted to graduate studies at UNO. Exceptions can be made for students admitted to graduate studies on another campus of the University of Nebraska or for senior students nearing the completion of their undergraduate work; inquiries should be made in the Office of Graduate Studies.

2. In addition to the requirements listed below, language of nurture was not English must present a score on the Test of English as a Foreign Language (TOEFL). Automatic waivers are granted for persons who already have received a baccalaureate or equivalent degree from an English-speaking institution of higher education in the United States, the United Kingdom, Canada, English-speaking Africa, Australia, Ireland or New Zealand. A minimum score of 550 is required for admission of all those who must present a TOEFL score. (Please see page 25 for additional comments on procedures for students whose language of nurture was not English. Any non-immigrant must provide a statement of available financial support. Contact the Office of Admissions for details.

3. Anyone wishing to apply for admission to graduate studies at UNO should:

- Obtain an Application for Admission to graduate studies at UNO from the Office of Admissions, University of Nebraska at Omaha, 103 Eppley Administration Building, Omaha, Nebraska 68182.
- Submit the completed application form with the required fee to the Office of Admissions.
- Applicants with course work in progress, either graduate or undergraduate, at the time they are applying will be required to submit an official final transcript upon completing the course work. The official final transcript is essential to confirm the completion of a Bachelor's or Master's degree. Transfer students must be in good standing at the college or university last attended.
- Arrange to have an official transcript from each college or university previously attended sent directly to the Office of Admissions.
- Read this Graduate Catalog carefully to learn what the department/area may require for admission in addition to the admission application form and transcripts.
- Arrange to have the official scores on all required aptitude or advanced knowledge tests (GRE, GMAT or MAT) sent to the Office of Graduate Studies, University of Nebraska at Omaha, 204 Eppley Administration Building, Omaha, Nebraska 68182; applicants for Unclassified admission are not required to submit these test scores.

4. When the file in the Office of Admissions is complete, the Office will forward the file to the appropriate department/area for review.

5. The recommendation by the department/area applicant will be sent to the Dean for Graduate Studies and Research. All recommendations on admission are subject to the approval of the Dean.

6. The Office of Graduate Studies will officially notify each applicant by mail of acceptance or denial of the application. This notification will include the classification of admission, identified undergraduate foundation requirements, assignment of adviser, reason for denial (if appropriate), etc.

SUMMARY OF PROCEDURES FOR GRADUATE STUDENTS

1. Graduate students should meet regularly with their assigned advisers or with other departmentally approved advisers. At a minimum, before each registration period the students must meet with an adviser to arrange a class schedule for the upcoming semester; an adviser's signature or signature card is required for each registration.

2. In order to be eligible to receive a graduate degree, students must be formally admitted to candidacy for the degree; this is a process distinct from admission to graduate studies in the degree program. Students should file an application for admission to candidacy for the degree after successful completion of six graduate hours taken at the University of Nebraska. See the section entitled, "Admission to Candidacy for the Degree" for further information. Official notification of admission to candidacy for the degree will be mailed to students by the Office of Graduate Studies. If such notification is not received within a reasonable time, the students should call the Office of Graduate Studies.

3. If the approved plan of study includes a thesis, students should follow all instructions included in the section entitled, "Thesis Option."

4. Students should visit the Office of Graduate Studies at least once a semester to insure that their files are complete and in order.

5. All students are required to pass final comprehensive examinations before receiving a degree. The final comprehensive examinations are normally taken near the end of the degree program. Students should notify the department/area Graduate Program Committee at the beginning of the semester in which they plan to take the examinations.
6. During what is expected to be the semester of graduation and prior to the posted deadline, students should make application in the Office of the Registrar for the conferral of the degree. If application is made in one semester, but requirements are not met in that semester, reaplication must be made in the next intended semester of graduation; no additional fee is required to reactivate the application.

7. Students must pay all fees and fines and satisfy all obligations to the University at least 12 working days before conferral of the degree.

8. Students wishing to participate in the Commencement ceremony must order a cap, gown and hood from the UNO Campus Bookstore.

GRADUATION CHECKLIST

Apply for graduation. See Academic calendar in this catalog or contact the Registrar’s Office for deadline. If you apply for graduation and do not complete all of the requirements in time to graduate, notify the Office of Graduate Studies as soon as possible so that your name can be removed from the graduation list. You must reapply for graduation in the Registrar’s Office in the next semester in which you intend to complete the requirements for the degree; no additional fee is charged to reactivate your application.

Make arrangements to take final comprehensive examinations with your department.

“Incomplete” and “NR” grades from a previous term must be removed so that the grade will be in the Office of Graduate Studies at least 12 working days before graduation.

All grades for current enrollment must be on file in the Office of the Registrar no later than the close of business on the fifteenth working day following the date of commencement for the particular semester.

Pay all fees and fines and satisfy all obligations to the University at least 12 working days before graduation.

Order a cap, gown and hood from the UNO Campus Bookstore.

PLEASE ADD THE FOLLOWING IF YOUR APPROVED PROGRAM INCLUDES A THESIS, THESIS-EQUIVALENT PROJECT, OR A FIELD PROJECT:

Obtain a copy of “Instructions for the Preparation of Thesis” from the Office of Graduate Studies.

A “Supervisory Committee for a Thesis Program” form must be on file at the Office of Graduate Studies at least one semester before graduation.

Make arrangements with your department for oral exams and defense of thesis or field project.

Call the Office of Graduate Studies before the defense and a copy of the Degree Completion Report will be sent to your department. This must be signed by the Supervisory Committee after approval of the thesis. Return form to the Office of Graduate Studies promptly.

The approved thesis, thesis-equivalent project or field project must be deposited in the Office of Graduate Studies together with the proper number of copies at least 12 working days before graduation. The thesis binding fee must be paid prior to depositing the thesis/field project. The payment process begins at the Registrar’s Office.

CHECKLIST FOR ACCEPTABLE THESIS, THESIS-EQUIVALENT PROJECT AND FIELD PROJECT:

Receipt of payment for total number submitted for binding. (At this time it is $7.50 per copy.)

Are three copies enough? Minimum required is two. Check with your department as to their requirements.

Check rag content and paper weight. At least 25 percent rag content watermarked bond paper of 20 lb. weight for the original and copy for the Library.

The text must be double-spaced, except for quotations.

Must be typewritten with black ribbon using pica or elite type. Word processors can be used but the text must be printed on a letter-quality printer. NO DOT MATRIX.

Check margins. A left hand margin of one and one-half inches, right hand margin of one inch, and top and bottom margins of one and one-fourth inches each.

Check that photographs, maps and drawings will not be obscured when bound.

Check that pages are numbered in Arabic numerals at the inside edge of the right hand margin at least five-eighths of an inch from the top edge of the paper.

Are the title page, acceptance page and table of contents in the appropriate format?

If in doubt about paper or print quality please bring a sample to the Office of Graduate Studies for approval.

The manuscripts must be submitted in individual protective envelopes, labeled with your name in the upper left hand corner.
FOR THESIS OR THESIS-EQUIVALENT PROJECT ONLY:
An abstract no more than two pages in length and conforming to the thesis or thesis-equivalent project in respect to margins and spacing must be placed in the thesis or thesis-equivalent project following the acceptance page.

ADMINISTRATION OF GRADUATE STUDIES
The administrative Office of Graduate Studies on the UNO campus is located in 204 Eppley Administration Building. The office of the UNO Dean for Graduate Studies and Research, general information material and copies of all required forms can be found there. The office of the Dean of the Graduate College, University of Nebraska, is located in Room 106 of Varner Hall, Lincoln.

ORGANIZATION OF GRADUATE STUDIES
University of Nebraska
In 1971, at the direction of the Board of Regents, the Graduate College of the University of Nebraska (UNL and UNMC) and the Graduate College of the University of Nebraska at Omaha were merged to form one University-wide Graduate College with one Graduate Faculty. The ultimate academic authority for all graduate programs within the University is vested in the approximately 1700 Members of the Graduate Faculty.

The Bylaws of the Board of Regents state that the Executive Vice President and Provost of the University of Nebraska shall serve as Dean of the University-wide Graduate College and as presiding officer of the Graduate Faculty and councils thereof. The legislative and academic authority of the Graduate Faculty is vested in the Executive Graduate Council, comprising 33 Members elected by the faculty of the Graduate College and 4 graduate student members. Specific responsibilities of the Dean and of the Executive Graduate Council can be found in the "University of Nebraska Graduate College Governance Document."

University of Nebraska at Omaha
On each campus of the University on which graduate programs are offered, there is a campus Dean for Graduate Studies, a campus Graduate Faculty and a campus Graduate Council. The UNO Dean for Graduate Studies and Research administers graduate programs and policies on that campus; serves as presiding officer of the UNO Graduate Faculty and the UNO Graduate Council; and forwards to the Dean of the Graduate College matters which are of University-wide concern. The UNO Graduate Faculty consists of those members of the University-wide Graduate Faculty administratively assigned to UNO. The UNO Graduate Council acts as an advisory body to the UNO Dean for Graduate Studies and Research, coordinates the graduate studies on the UNO campus and recommends to the Executive Graduate Council actions affecting students and programs on more than one campus. This Council consists of 25 elected or appointed faculty members and three graduate student members. Specific responsibilities of the Dean of Graduate Studies and Research and of the UNO Graduate Council may be found in the "Organization of Graduate Studies: University of Nebraska at Omaha."

COMMITMENT TO RESEARCH
We are a University committed to research. What does this mean to you as a student?

It means that the same faculty members teach both undergraduate and graduate courses and that these instructors create knowledge as well as transmit it. They spend a large portion of their time engaged in research in libraries and laboratories and out in the field.

At UNO you are taught by the people making discoveries, so you learn the latest findings on every front. You may exchange ideas with faculty members who are authorities and you may participate in research experiencing the discovery of new knowledge.

FACULTY SCHOLARSHIP
Teaching, research or creative activity and professional services are the common currency of scholars engaged in the tasks of higher education, and as a central role of any university is the production and dissemination of basic and applied knowledge, and as the roles of teaching, research or creativity and professional service are inextricably linked, and as excellence in one area alone does not constitute a sufficient contribution to the University community; the University of Nebraska at Omaha Graduate Council expects that productivity in research or creative activity be an essential part of faculty personnel recommendations.

GRADUATE FACULTY
Graduate Faculty Members
Responsibilities
Graduate Faculty Members may teach graduate courses, supervise students enrolled in subdoctoral graduate programs, serve on the final examining committees for these students and vote on any matters presented to the Graduate Faculty including the election of the Executive Graduate Council and the Graduate Council for their specific campus.

Criteria
The following requirements for the nomination of Graduate Faculty Members were adopted by the Graduate Faculty to establish consistent standards for faculty members eligible for appointment to carry out these assignments:

- The nominee must hold the rank of Assistant Professor or above.
- The nominee must hold the terminal degree normally accepted for academic employment in the discipline or its clear equivalent as determined by the Graduate Program Committee of the nominee's department or interdepartmental area.
- The nominee will as part of his or her regular duties be actively involved in graduate student research and/or graduate teaching.
The nominee must have demonstrated clear evidence of scholarly activity and potential in the discipline beyond teaching. This evidence must be provided by the nominator.

Graduate Faculty Fellows Responsibilities
Graduate Faculty Fellows may teach graduate courses, supervise and serve on supervisory committees for students working toward post-baccalaureate degrees, vote on all matters presented to the Graduate Faculty and vote on nominations for Graduate Faculty Fellows.

Criteria
The following requirements for the nomination of Graduate Faculty Fellows were adopted by the Executive Graduate Council to establish reasonably consistent standards for faculty members eligible for appointment to supervise doctoral students:

- The nominee must be a Graduate Faculty Member or meet all criteria for Graduate Faculty Membership.
- The nominee must have published research and scholarly work of quality, or have demonstrated comparable creative achievement.
  - In disciplines where publication is the normal outlet for scholarly work or research, the nominator must provide evidence of the nominee's significant, refereed publications appearing under the imprint of recognized scholarly publishing houses or journals. Publication must have resulted from a judgment of quality by an editorial board.
  - Publication based on the nominee's terminal degree alone is not sufficient, although publication of the dissertation or parts of it is significant if the nominator indicates the manner in which the published version represents a substantial amount of scholarly work in addition to that required for the dissertation.
  - In disciplines such as art, architecture, theatre or music where publication is not the normal or singular end product, the nominator must provide evidence of creative work accomplished by the nominee. This creative work must bear evidence of acceptance by peers within the discipline.
- The nominator must indicate current involvement of the nominee in research and/or creative work.
- The nominator may provide supporting evidence for the nominee such as published textbooks related to graduate education, published instructional materials, published professional reports or evidence of funded research and development projects.
- The nominator may provide evidence of the nominee's teaching effectiveness in working with graduate students. This evidence may consist of peer and student evaluations or reports of student achievement subsequent to the receipt of advanced degrees.

GRADUATE PROGRAM COMMITTEES
Each graduate department authorized to offer major work leading to the Master's or doctoral degree shall have established for it a Graduate Program Committee containing not less than three Graduate Faculty Members, one of whom is designated as chairperson. In the case of a graduate department offering a doctoral degree, the majority of the Committee and its chairperson must be Graduate Faculty Fellows. In all cases, at least two-thirds of the Committee must be Graduate Faculty Members. Membership of the Graduate Program Committee is recommended by the departmental chairperson or other appropriate administrator for appointment by the Dean of the Graduate College, who has delegated that responsibility to the UNO Dean for Graduate Studies and Research.

In its graduate department the Graduate Program Committee shall have the responsibility for the planning of the graduate program, the general supervision of candidates for graduate degrees and the evaluation of students by means of qualifying or final comprehensive examinations. The word "program" denotes all kinds of academic requirements which must be satisfied by the students admitted to the departmental graduate studies, including both major and minor requirements, together with quality of work standards, transfer credits and those electives which are not major or minor courses.

GRADUATE STUDENT ADVISERS
Upon admission to graduate studies in a graduate department, each student is assigned an adviser by the Graduate Program Committee. The adviser is responsible to the student and to the Graduate Program Committee for ensuring that the student's work, including the plan of study, satisfies all requirements of the program and of the Graduate College. To assure accountability and maintenance of the standards, policies and procedures of the Graduate College, all graduate advisement must be provided by Members or Fellows of the Graduate Faculty (with exceptions possible only for persons with a primary advisement role under the direct supervision of a Member or Fellow). A change of adviser requires official action.

SUPERVISORY COMMITTEES
Some graduate programs require the establishment of a supervisory committee for each student. In particular, each student under Option I (page five) must have a supervisory committee. Each committee is appointed by the Dean for Graduate Studies and Research based upon recommendation of the Graduate Program Committee. The committee shall consist of at least two voting Graduate Faculty Members from the student's graduate department and at least one voting Graduate Faculty Member from another department. In addition, other qualified persons may be appointed to ex-officio (non-voting) status if it is believed that they can provide needed expertise or that they could gain valuable experience by participating on the committee. If the
student is under Option I, the chairperson of the committee shall be considered the student’s thesis adviser. The Supervisory Committee sheet must be on file in the Office of Graduate Studies at least one semester before graduation.

GRADUATE STUDIES AT UNO:
HISTORY AND PURPOSE
For the more than 80 years since its founding in 1908, the University of Nebraska at Omaha has provided Omaha, the state of Nebraska and the nation with men and women of sound intellectual training and preparation for life. Its goal for its students, “To earn a living and live a cultured life not as two processes, but as one”, has been its guide over the years.

The University of Omaha was founded in 1908 as a private, nonsectarian college. The University awarded its first Master’s degree in 1919 by special vote of the Board of Trustees. In 1931 the University of Omaha became the Municipal University of Omaha; in that same year the Master of Arts and the Master of Science degrees were authorized. In 1960 the Board of Regents of the University authorized the Specialist in Education degree, and in 1965 they authorized the Master of Business Administration degree.

In 1968 the Municipal University of Omaha was merged with the University of Nebraska System and became the University of Nebraska at Omaha. In 1971 the Graduate College of the University of Nebraska was formed to govern graduate studies throughout the University of Nebraska. Since 1968 the University of Nebraska at Omaha has been authorized to offer five additional professional Master’s degrees. In 1974 the cooperative program with UNL leading to the Ph.D. in three areas of psychology was approved. In 1992 the Board of Regents and the Coordinating Commission for Higher Education approved a joint Ed.D. in Educational Administration degree program (UNL and UNO).

Graduate studies are intended to provide more advanced education than the undergraduate work upon which all graduate programs are based. At UNO graduate students are provided with the following opportunities:

- to work toward the various graduate degrees offered by the University;
- to earn graduate credit for the issuance or renewal of certificates for teachers, administrators and educational psychologists;
- to obtain personal or professional enhancement.

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

ACCREDITED STANDING
The accreditations listed below indicate the concern of the faculty and administration of the University of Nebraska at Omaha to meet rigorous standards of academic quality. These standards include such factors as professional attainments of faculty, quality of research, library holdings, physical facilities and general support for the respective programs by the funding authorities. Students, therefore, can be assured their educational experiences at UNO will meet high standards of quality.

The University of Nebraska at Omaha is accredited by the North Central Association of Colleges and Secondary Schools, and has programs which are accredited or approved by the National Council for Accreditation of Teacher Education, the National Council on Social Work Education, the Engineers Council for Professional Development, Technology Accreditation Commission/Accreditation Board for Engineering and Technology, National Association for Industrial Technology, the American Home Economics Association (for undergraduate programs), the American Dietetic Association, the American Assembly of Collegiate Schools of Business, the National Association of Schools of Music (undergraduate programs), the National Association of Schools of Public Affairs and Administration, the Educational Standards Board of the Boards of Examiners in Speech-Language Pathology and Audiology, the National Recreation and Park Association/American Association for Leisure and Recreation, and the American Chemical Society. Its courses are accepted for purposes of teacher certification by the Nebraska State Department of Education.

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

GENERAL POLICIES
Affirmative Action/Policies Prohibiting Discrimination and Sexual Harassment
It is the policy of the University of Nebraska that students on each campus of the University of Nebraska shall be admitted and enjoy the programs and privileges of the University without regard to individual characteristics other than qualifications for admission, academic performance and conduct in accord with University policies and rules and laws applicable to student conduct.

Employees on each campus of the University of Nebraska shall be employed and equitably treated in regard to the terms and conditions of their employment without regard to individual characteristics other than qualifications for employment, quality or performance of duties and conduct in regard to their employment in accord with University policies and rules and applicable law.

The University of Nebraska at Omaha reaffirms its desire to create an environment for all students and employees that is fair and responsible — an environment which is based upon one's ability and performance. To that
end, it is the policy of the University of Nebraska at Omaha to administer all of its educational and employment programs and related supporting services and benefits in a manner which does not discriminate because of an individual's race, color, sex, religion, national origin, age, disability, marital status, political affiliation, Vietnam-era veteran status or sexual orientation.

It is further the policy of the University of Nebraska at Omaha that sexual harassment will not be condoned or tolerated. Sexual harassment is defined as any unwanted communication of a sexual nature, whether verbal, physical, written, or pictorial, which has the purpose or effect of intimidating the person receiving the communication, or any solicitation of sexual contact of any nature when submission to or rejection of such contact is used as the basis for either implicitly or explicitly imposing favorable or adverse terms and conditions of academic standing or employment.

Appropriate corrective action will be taken in those instances where the foregoing policies have been violated. Any student or employee who is found to have violated any of the foregoing policies will be subject to disciplinary action.

Further, the University commits itself to a program of affirmative action to encourage the application of minority, women and handicapped students, to identify and eliminate the effects of any past discrimination in the provision of educational and related services, and to establish organizational structures and procedures which assure equal treatment and equal access to the facilities and educational benefits of the institution for all students.

The University of Nebraska at Omaha complies with all applicable laws promoting equal educational and employment opportunity and prohibiting unlawful discrimination, including those addressing the obligations of the institution under Title VII of the Civil Rights Act of 1964, as amended, Title IX of the Education Amendments of 1972, as amended, Sections 503 and 504 of the Rehabilitation Act of 1973, and Americans with Disabilities Act.

For further information on these policies, students should contact the Vice Chancellor for Educational and Student Services, 211 Eppley Administration Building, 554-2779; faculty should contact the Vice Chancellor for Academic Affairs, 203 Eppley Administration Building, 554-2262; and staff should contact the Affirmative Action Officer, Personnel Services, 205 Eppley Administration Building, 554-2321.

Privacy Act
In compliance with the Family Education Rights and Privacy Act of 1974, the University of Nebraska at Omaha guarantees students access to official records directly related to students and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate. The institution must obtain the written consent of students before releasing identifiable data about students from records to other than a special list of exceptions.

An explanation of this Act and its application at UNO is available to all students. Copies may be obtained at the Office of Student Activities, the University Information Center, the Registrar’s Office, the Orientation Office or the Office of the Vice Chancellor for Educational and Student Services.

Expectations in the Classroom

Attendance
Classes are conducted on the premise that regular attendance is desirable and expected. The individual instructor has the responsibility for managing student attendance and for communicating at the beginning of each semester those class attendance policies which prevail in that classroom.

If a student is absent or anticipates an absence, the student’s primary responsibility is directly to the instructors, and the student should consult with them accordingly. A student who misses a class is nonetheless responsible for information and assignments communicated during that class session. If students discover that they are to be absent for an extended period, they should promptly notify the instructors and be prepared to document the reason for extended absences.

Instructors or other University officials who may require students, individually or collectively, to be absent from their classes due to a field trip or similar officially recognized activity are responsible for providing adequate information to the students involved so that the students may provide notice to other instructors.

Behavior
Section 5.0 of the Bylaws of the Board of Regents of the University of Nebraska states:

"Students, like all members of the academic community, have the responsibility to create and support an educational environment. Each member of the community should be treated with respect and dignity. Each has the right to learn. This right imposes a duty not to infringe upon the rights of others. The academic community should assure its members those opportunities, protections and privileges that provide the best climate for learning."

Use of Human Subjects or Animals in Research
All campus research that involves the use of human subjects or animals must be reviewed and approved by the Institutional Review Board or the Animal Research Committee, respectively. This policy applies to both funded and non-funded faculty and student research. Any individual research project that involves human subjects or animals must be approved by the appropriate committee prior to initiation of the research. For additional information, visit or contact Sponsored Projects, 202 Eppley Administration Building.
Academic Honesty

All students at the University of Nebraska at Omaha are expected to conduct their academic affairs in an honest and responsible manner. Any student found guilty of dishonesty in academic work shall be subject to disciplinary actions. Acts of academic dishonesty include, but are not limited to:

- plagiarism*, i.e., the intentional appropriation of the work, be it ideas or phrasing of words, of another without crediting the source;
- cheating, i.e., unauthorized collaboration or use of external information during examinations;
- assisting fellow student in committing an act of cheating;
- falsely obtaining, distributing, using or receiving test materials or academic research materials;
- submitting examinations, themes, reports, drawings, laboratory notes, research papers or other work as one's own when such work has been prepared by another person or copied from another person (by placing his/her own name on a paper, the student is certifying that it is his/her own work); or
- improperly altering and/or inducing another to improperly alter any academic record.

Additionally, graduate students are more likely to assume roles as active scholars. With these roles come added responsibilities for academic honesty. For such individuals academic honesty requires an active pursuit of truth not just an avoidance of falsehood. This pursuit includes but is not limited to:

- providing a full and complete representation of any scholarly find, be it experimental data or information retrieved from archives;
- taking care that the resources of the University (e.g., library materials, computer, or laboratory equipment) are used for their intended academic purposes and that they are used in a manner that minimizes the likelihood of damage or unnecessary wear;
- assuring that one's co-workers are given due credit for their contributions to any scholarly endeavor;
- respecting a diversity of opinion and defending one's colleagues as well as one's own academic freedom;
- respecting the rights of other students who may come under the tutelage of the graduate student and being fair and impartial in grading and other forms of evaluation; and
- seeking permission from an instructor when submitting to that instructor work which the student has submitted for a course taken in the past or intends to submit for another course currently being taken.

In cases of alleged academic dishonesty, the instructor shall attempt to discuss the matter with the student and explain the sanction(s) which he/she plans to impose. In the event that the student challenges the allegation of academic dishonesty, or is not satisfied with the sanction(s) imposed by the instructor, the student may file an appeal according to the approved appeal policies of the University of Nebraska Graduate College.

“By plagiarizing, a student is, in effect, claiming credit for another individual's thinking and expression. Whether the student has read or heard of the information used, the student must document the source of information. When utilizing written sources, a clear distinction should be made between quotations (which reproduce information from the source word-for-word within quotation marks) and paraphrases (which are restatements of the source information produced in the student’s own words). Both direct quotations and paraphrases must be documented. Even though a student rephrases, condenses or selects from another person's work the ideas are still the other person's and failure to give credit constitutes misrepresentation of the student’s actual work and plagiarism of another person's idea. Purchasing a paper or copying another person's work and handing it in as the student's personal work is plagiarism and misrepresentation.”

Plagiarism

The prevention of plagiarism and the imposition of sanctions upon those who resort to plagiarism is necessary in any university that espouses the ideals embodied in the concept of academic freedom. Plagiarism is the appropriation of the work (be it ideas or words) of another without crediting the source. Such a practice is particularly reprehensible in a community dedicated to the pursuit and advancement of knowledge.

Plagiarism by Faculty

The investigation of allegations of plagiarism by a faculty member at any major administrative unit of the University of Nebraska shall be the responsibility of the Academic Freedom and Tenure Committee of that campus.

Plagiarism by Students

The investigation of allegations of plagiarism by a student or appeals therefrom, at any major administrative unit of the University of Nebraska, shall be carried out under the appropriate faculty-student appeals committee at that campus.

Ethical Conduct

It should be understood that academic performance is not the only criterion for graduation. Students are expected to maintain the highest standards of ethical conduct pertaining to academic course work, professional practice and research activity. Any breach in ethical conduct shall be subject to disciplinary action, regardless of the student's prior or current academic performance.
ACADEMIC SERVICES
University Library

The University Library, centrally located on the UNO campus, offers many services to its users and contains materials and facilities for study and research. The collection encompasses approximately 660,000 volumes; 4,300 journal and newspaper subscriptions; 445,000 government documents; 1,400,000 microforms; plus audio and video cassettes and other media. Back issues of periodicals in bound volumes and in microform are maintained. As a partial government documents depository, the University Library collects most federal and Nebraska state publications. A collection of local documents also is maintained. Nearly all of the Library's collection is on open shelves and is arranged according to the Library of Congress classification system. Most of the Library's holdings are accessible through an online catalog, GENISYS (General Information System). GENISYS is available through terminals in the Library, via ethernet, and by modem from remote locations.

UNO students, faculty and staff may check out library materials with their UNO ID card at any of the four University of Nebraska campuses. A reciprocal borrowing agreement also allows anyone with a UNO ID to check out materials from 30 other Nebraska college and university libraries. Community users may obtain a borrower's card for a small annual fee.

Qualified staff are available to aid students. Reference librarians answer questions at the Reference Desk, assist individual students with their research, and give lectures to classes on the use of the Library in general and on the materials of specific subject areas as requested. Each librarian serves as liaison to one or more departments in his/her area of subject expertise. The Reference Department provides on-line data base searching of over 200 data bases on a cost recovery basis as well as an access to CD-ROM data bases. Assistance is available for government documents, current periodicals, reserve materials, and audio-visual and microform material and equipment. When needed material is not available in the UNO collection, the Interlibrary Loan Division can borrow it from other libraries for UNO students and faculty. Handouts with information about the Library's collections and its many services are available on the main floor.

The University Library is open 91 hours per week during the fall and spring semesters. Slightly shorter hours are observed during the summer and intersessions. Study areas include tables, chairs, and individual study carrels. Photocounters are available on the lower level.

Computing and Data Communications

The Office of Computing and Data Communications (C&DC) is responsible for managing all facets of academic and administrative computing and data communications on the campus. The staff consists of 19 full-time employees and 35 part-time student employees. Main offices are located in 110 Eppley Administration Building (EAB), phone 554-2468. Computer Operations is in 008 EAB, phone 554-3500 and is open 24 hours per day all year long.

Administrative Computing has the responsibility for the development and/or maintenance of systems which are uniquely applicable to the UNO campus and also those which are not common to all campuses. The Student Information System (SIS) resides on an IBM 9121 model 480 computer system located in Lincoln, Nebraska. The remaining Administrative systems reside on a DEC MicroVax 3100 located at UNO.

The academic computing capability centers around three computers running the ULTRIX operating system and two running the VMS operating system. A full array of software on the mainframes and microcomputers is available to satisfy many and varied academic pursuits.

Three open access/general purpose microcomputer labs are available to students and faculty seven days a week. These labs are equipped with IBM compatible and Macintosh microcomputers as well as terminals, high speed printers, laser printers and dot-matrix printers. Consultants are available for student assistance in the Durham Science Center and College of Business Labs. These labs are primarily for classroom work; however, students use them for independent study and research projects.

An additional 16 microcomputer labs (located in the colleges and departments) are dedicated to specific and unique instructional/research requirements.

Fifty dial-up ports are available for off-campus access to the computers and networks (MIDnet and Internet). Computers are electronically connected through the Ethernet data communications network. Ethernet is also used to connect to UNL computers as well as computers in other Nebraska public and private educational institutions (K-12, Boystown and universities). Other networking technologies include Novell and IBM's Token Ring.

The Training and Computer Information Center (TCIC) offers a number of computer courses at no cost to students, faculty and staff. Additionally, the Center maintains a large library of technical reference and instructional material. The TCIC publishes over thirty handouts and study guides on computer hardware, software and techniques. The Center also publishes a quarterly newsletter.

Telephone assistance is provided for students, faculty and staff by the Help Desk located in the TCIC, 005 EAB, phone number 554-3282 (DATA).

Funding for Graduate Student Research

An essential part of every graduate program is learning to use the tools of research, both scholarly and applied. Graduate students seeking funding for a research project should first inquire whether their department or college has funds available for that purpose. Information on other sources such as the University Committee on Research and funding agencies exterior to the University can be obtained from the Office of Sponsored Projects, 202 Eppley Administration Building.
Student Organizations

A wide variety of student organizations makes it possible for students to find activities to fit their academic and avocational interests. Among the over one hundred student organizations are departmental, honorary, professional, sports and service organizations, as well as student government. Professional fraternities and honorary organizations provide social contacts with other students while giving members more practical understanding of their chosen fields. For further information about student organizations, students are advised to contact the Office of Student Activities in the Milo Bail Student Center or individual departments.

TUITION, FEES, DEPOSITS AND REFUNDS

Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. The delayed billing schedule allows students to pay a portion of their tuition before the start of the semester, and the remaining portion at the end of the seventh week of the semester, depending upon the number of credit hours the student registers for. Students who choose to early register will be billed, and are required to make a tuition confirmation payment by the deadline published in the Class Schedule. Students that do not confirm their early registration by making the required payment, are dropped from their classes, and their $25.00 registration deposit is forfeited. Students who register during the general registration period, are required to make the confirmation payment at the payment at the time of registration. All students are billed for remaining tuition which is due the end of the seventh week of the semester. 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 the Eppley Administration Building. Application for financial aid should be made at the earliest possible time.

Courses which are added or registrations which occur after the completion of the fourth week of classes must be paid in full prior to processing by the Registrar’s Office. Students waiting until after the final due date for payment of tuition and fees to register or add courses will be required to pay the late registration fee or charge of program fee, whichever is applicable, and the late payment fee. With the exception of the Bookstore, the University does not accept bank cards for payment of any financial obligation.

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 and withholding of grades and transcripts. Outstanding financial obligations from previous semesters must be paid prior to Registration. Failure to do so may prohibit registration for the current and future semesters.

The University reserves the right to change the amount of tuition or fees at any time and to assess charges for laboratory fees, breakage, lost property, fines, penalties, parking, books, supplies, food or special services not listed in this schedule.

Graduate Application Fee (Graduate College)
Application Fee ........................................... $ 25.00
Counseling Department Admissions Testing Fee: MMPI-2 ........................................... $ 9.00

Tuition (Per Semester Credit Hour)
Programs administered by UNO:

Undergraduate
Resident of Nebraska
(Contact the Office of Admissions about the residency statute) ........................................... $ 61.50
Non-Resident ........................................... $ 167.50

Graduate
Resident of Nebraska
(Contact the Office of Admissions about the residency statute) ........................................... $ 81.50
Non-Resident ........................................... $ 201.25

Programs administered by UNL and other UNL-administered colleges:

Undergraduate
Resident of Nebraska
(Contact the Office of Admissions about the residency statute) ........................................... $ 70.25
Non-Resident ........................................... $ 169.00

Graduate
Resident of Nebraska
(Contact the Office of Admissions about the residency statute) ........................................... $ 81.00

Audit Fee

The audit “not for credit” fee is set at one-half of the resident undergraduate or graduate tuition rate. For classes offered through the off-campus program, the audit “not for credit” fee is set at one-half of the off-campus undergraduate or graduate tuition rate. In addition, students registering for audit must pay the appropriate UPFF fee. Registration for audit requires the permission of the instructor and is subject to available class space after credit registration ends. Students who register to take a course for credit and who later change to audit registration will be required to pay the full resident or non-resident tuition rate. Audit fees are refundable in accordance with the Tuition Refund Schedule.

Laboratory/Special Instructional Fees

Students enrolling in the following course sections are advised that laboratory/special instructional fees are mandatory for services and are charged accordingly.

Accounting: ........................................... $ 3.00
2020, 3020, 3040, 3050, 3080, 4040, 4070,
### GENERAL INFORMATION

<table>
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<tr>
<th>Course Category</th>
<th>Course Code</th>
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<tr>
<td>Accounting continued</td>
<td>8046, 8076, 8220, 8260</td>
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<td>Economics</td>
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<td>Education</td>
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<td>$5.00</td>
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<tr>
<td>English</td>
<td>1030</td>
<td>$3.00</td>
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<tr>
<td>Engineering</td>
<td>CET 2000, 2020</td>
<td>$15.00</td>
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<tr>
<td>Fine Arts</td>
<td>History, Survey &amp; Seminar courses</td>
<td>$5.00</td>
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<tr>
<td>Finance and Banking</td>
<td>3000, 3250, 3400, 3650, 3700, 4150, 4400</td>
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<tr>
<td>Foreign Languages</td>
<td>1000- and 2000-level courses</td>
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<tr>
<td>Geography</td>
<td>1030, 1060, 1070</td>
<td>$5.00</td>
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<tr>
<td>Geology</td>
<td>1170, 1180, 2754, 2764, 4610, 4950, 8616 Lab fees</td>
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<td>Information Systems &amp; Quantitative Analysis</td>
<td>1230, 2130, 3140, 3150, 3210</td>
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<td>Information Systems &amp; Quantitative Analysis</td>
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<td>Journalism</td>
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<td>Management</td>
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<td>Mathematics</td>
<td>1314, 1324</td>
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<td>Music</td>
<td>Listening Lab</td>
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<td>Natural Science</td>
<td>2010, 2020</td>
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<td>Physics</td>
<td>All Labs</td>
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<td>Psychology</td>
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<td>Psychology</td>
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<td>Textiles, Clothing &amp; Design</td>
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<td>Writer's Workshop</td>
<td>All Labs</td>
<td>$10.00</td>
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Other laboratory/special instructional fees may be charged as authorized by the University. Please refer to the semester Class Schedule to determine which of the above fees are related to specific courses. Conference, non-credit and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved.

**University Program and Facilities Fee (UPFF)**

- **All students (full- and part-time)**
  - per semester: $57.50

  This fee is assessed to every student each semester. $14.25 of this fee is designated for Campus Recreation.

  The UPFF receipts are divided into two separate funds: Fund-A Student Fees and Fund-B Student Fees. Fund-A Student Fees are established and allocated by the elected Student Government subject to the approval of the
Chancellor of the University of Nebraska at Omaha in accordance with Board of Regents policy.

Fund-A Student Fees are refundable upon request in accordance with guidelines and procedures established and published by the Vice Chancellor for Educational and Student Services. Students requesting and receiving a Fund-A refund will no longer be entitled to the student activities supported by Fund-A Student Fees.

Fund-B of the UPFF is designated for services, staff salaries, maintenance of facilities and related expense, and those additional items designated by the Chancellor. This portion is budgeted separately with emphasis upon continuing support. The Vice Chancellor for Educational and Student Services submits the projections to the Chancellor, who in turn submits the projections to the President and the Board of Regents for final approval.

**Special Service Fees**

Transcripts of Academic Record first copy (allow 2-3 weeks for processing) $4.00
Additional copies (same order) $2.00
Thesis Binding (per copy) $7.50
Change of Program Fee (per each change of program) $5.00
Cap and Gown Rental (to be arranged through the Bookstore) TBA
Graduation Fee $3.00
Degree in Absentia (payable in addition to graduation fee) $2.00
Returned Check (per check) $8.00

Dishonored checks given in payment for tuition and fees must be redeemed in cash prior to the date for late registration, otherwise the late registration fee will be assessed in addition to the returned check fee. If a check which was issued either for payment of the minimum registration deposit or payment of a past due account to release a “stop enrollment” is returned unpaid by the drawer bank and full restitution is not made within 10 days, check-writing privileges shall be suspended, current semester tuition and fees shall become due in full and the individual shall be recommended for immediate disenrollment.

**Teacher Placement Fees**

Mandatory for Placement: Non-refundable
Registration and credential fee $25.00

Fee covers establishment of long-term placement file, seven sets of credentials within the registration year, (Oct. 1 through Sept. 30) and Vacancy bulletin if picked up at the office.

**Alumni Re-registrants** $45.00
Fee covers update of placement file, seven sets of credentials used within the registration year, and the vacancy bulletin if picked up at the office.

**Optional Services**

Sets of credentials in addition to the seven provided in registration fee may be sent for $4.00 per set. Alumni with established placement files may send one set of credentials without re-registering for $15.00. Vacancy bulletin is available by mail subscription only through the UNL Teacher Placement Office.

**Late Fees and Penalties**

Late Registration (day or evening classes) $10.00
Late Payment of Tuition Billing $20.00
Reinstatement of Cancelled Registration $10.00
Replacement of ID/Activity Card $5.00

**Deposits**

- Key (per key with authorization/refundable) $5.00
- ROTC Uniform Deposit Refundable
- Freshman and Sophomores $50.00
- Juniors and Seniors $100.00
- HPER Locker Deposit Refundable $7.50
- HPER Building lockers, lock and towel services are available to students and Campus Recreation Activity Card holders (faculty/staff).

To renew lockers for the next semester or retrieve deposit and personal articles, it is necessary to personally come by HPER 100 by the end of the semester or summer session.

Required of students taking HPER service classes. Also required of faculty, staff and students using Field House facilities.

**Testing Fees**

Mandatory for Services: Non-refundable

- ACT Assessment (ACT), National $15.00
- ACT Assessment (ACT), Residual $20.00
- California Achievement Test $25.00
- Credit by Examination, College-Level Examination Program (CLEP) $38.00
- Credit by Examination, per course (Departmental) $25.00
- Correspondence Tests $10.00
- English Diagnostic Test Fee (EDT) $7.00
- Graduate Management Admission Test (GMAT) $42.00
- Graduate Record Examination (GRE) $45.00
- Law School Admission Test (LSAT) $71.00
- Mathematics Placement Exam (MPE) $5.00
- Medical College Admissions Test (MCAT) $140.00
- Miller Analogies Test (MAT) $40.00
- Pre-Professional Skills Test (PPST) $63.00
- Test of English as a Foreign Language (TOEFL) $35.00

*Plus 50 percent of resident tuition for credit earned.
**Plus 50 percent of resident tuition for credit earned. The $25.00 testing fee will be applied to the tuition cost.
*** If both EDT and MPE exams taken, the total cost will be $10.00.
**** Additional fees for LSDAS
Refund Schedule
Refunds are computed from the date application is received by the Registrar, NOT from the date of withdrawal from classes. See policy entitled "Withdrawal from Classes." The University Program and Facilities Fee and Photo Fee are not refundable.

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. Failure to do so will prohibit registration for future academic semesters.

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. Refunds will be made by University Warrant, and will normally take four to six weeks to process.

Students who receive financial assistance and withdraw during the refund period may have to repay all, or a portion, of their financial aid received. A financial aid recipient should first contact the Office of Financial Aid to process.

Regular Semester
First week of classes, 100 percent refunded.
Second week of classes, 75 percent refunded.
Third week of classes, 50 percent refunded.
Fourth week of classes, 25 percent refunded.
Fifth week of classes, 0 percent refunded.

Summer Sessions (5 and 6 Week)
Before first official day of semester,
100 percent refunded.
First three days of classes, 100 percent refunded.
Remainder of first week, 50 percent refunded.
Second week of classes, 25 percent refunded.
Third week of classes, 0 percent refunded.

Summer Evening and Special Contract (7 and 8 Week)
Before first official day of semester,
100 percent refunded.
First three days of classes, 100 percent refunded.
Remainder of first week, 75 percent refunded.
Second week of classes, 50 percent refunded.
Third week of classes, 25 percent refunded.
Fourth week of classes, 0 percent refunded.

Non-Credit and Special Course (10 Weeks or More)
Withdrawal before classes start, 100 percent refunded.
Withdrawal before first week elapsed,
50 percent refunded.
Withdrawal before two weeks elapsed,
20 percent refunded.
Withdrawal after two weeks elapsed,
0 percent refunded.

(Less than 10 Weeks)
Withdrawal before classes start, 100 percent refunded.
Withdrawal before second class, 50 percent refunded.
Withdrawal after second class, 0 percent refunded.

IDENTIFICATION CARD
Upon your first registration at UNO, you must have your picture taken by the Audio Visual Department for your photo identification card. This card is expected to last five years and should be carried at all times.

Approximately two weeks after the semester has begun, you will be mailed a validation sticker that must be attached to your photo ID to prove current enrollment. Prior to receiving your sticker, your printed class schedule can be used as proof of enrollment.

Your photo ID serves as identification for services in the Library, Bookstore, HPER building and MBSC. You may be required to show your ID before being served in any of these facilities.

ID cards are not transferable, and use by anyone other than the student to whom the card is issued is subject to disciplinary action. Lost cards may be replaced by contacting the Audio Visual Department in 108 Eppley Administration Building. A $5.00 charge will be made for replacement cards.

DEAD WEEK
The last week of regularly scheduled classes during fall and spring semesters is designated as Dead Week. Except for makeup examinations, tests in self-paced courses, post-tests in the English Composition Program or laboratory exams, no major examination (accounting for more than 20 percent of a student's grade) may be given during this period.

Papers, projects or presentations assigned well in advance (at least two weeks) of Dead Week may be due during this period.

INTERSTATE RECIPROcity AGREEMENT FOR GRADUATE EDUCATION
Under an agreement between the Board of Regents of the University of Nebraska and the Board of Curators of the University of Missouri, graduate students meeting the regular in-state requirements of the University of Missouri shall be regarded as in-state students at the University of Nebraska, with respect to admission requirements, tuition and fees, scholarships, fellowships and assistantships and other benefits normally available to Nebraska residents.

FINANCIAL AID FOR GRADUATE STUDENTS
Presidential Graduate Fellowships
Each year two Presidential Graduate Fellowships are awarded to graduate students who are in the final year of their programs. The Fellowships are designed to allow outstanding students to concentrate their efforts on the completion of their thesis or course work and do not require the performance of any duties. Information about criteria, nomination procedures and selection procedures are available at the Office of Graduate Studies, 204 Eppley Administration Building.
Graduate Assistantships and Policy Governing Graduate Assistantships

Graduate Assistantships are available for qualified students who are enrolled in a graduate degree program. The Assistantships offer assignments in teaching, research or laboratory supervision designed to provide opportunities for supervised educational experiences at the graduate level. Interested students should make inquiries in their department/area about the availability of Assistantships and the procedures for applying. The application and supporting credentials should be on file in the department/area by March 1 for consideration.

A Graduate Assistantship entitles the holder to a waiver of tuition costs up to 12 hours of graduate credit per semester. Most Graduate Assistants are also eligible for tuition waivers during the summer sessions. Graduate Assistants may apply for a Graduate Assistant tuition waiver for undergraduate-level course work that is required to meet a graduate foundation requirement that is identified in the evaluation of the Graduate Assistant's application for admission and is the basis for provisional admission to the graduate program in the Assistant's respective department/area. The application must be recommended by the instructor in writing to the department/area Graduate Program Committee; approval must be given by the Dean for Graduate Studies and Research.

There are a limited number of half-time Graduate Assistantships available on this campus. No tuition remission is awarded to half-time assistants.

The following policy governing Graduate Assistantships at UNO was passed by the UNO Graduate Council:

Academic Standards

The Graduate Assistantship is intended as an award to students who have demonstrated high academic performance and potential either at the graduate or undergraduate level. Graduate Assistants must be students in good standing in a degree program in the Graduate College. Dismissal from a graduate program for any reason shall result in simultaneous dismissal from any Graduate Assistantship position. The student will not be eligible for an Assistantship thereafter until fully reinstated in a graduate degree program.

Recruitment and Selection of Graduate Assistants

Each graduate department or other departmental/area unit as appropriate, which awards Graduate Assistantships, shall establish its own procedures for recruitment and selection in accordance with University policy on affirmative action/equal opportunity. Assistantships are not automatically renewable and are dependent upon assessment of work and classroom performance. The student is reminded that, whether or not outside work commitments are involved, Graduate Assistantships may not be renewed if either graduate classwork or assistantship duties are not carried out in a satisfactory manner.

Work Load

The work load for a Graduate Assistant should average 20 hours per week for the duration of the appointment and shall be construed to be the equivalent of .33 FTE. The department in which the Graduate Assistant is employed should make arrangements with its Assistants regarding vacation periods. The Graduate Faculty considers a student who is pursuing graduate study and holding a Graduate Assistantship to be carrying the equivalent of a full-time work load (see course load below) and, therefore, discourages the practice of holding additional jobs which may interfere with satisfactory performance of assigned duties.

Course Load

Graduate Assistants are expected to carry a minimum of six graduate hours per semester. However, two five-week summer sessions shall be equivalent to one semester. Graduate Assistants may not register for more than 12 semester hours. The six hour minimum may be waived if the student is in the last semester of graduate work and needs less than six hours of graduate credit in order to complete requirements for graduation.

Duties

Duties assigned to Graduate Assistants should be directly related to and in support of graduate studies in their chosen field of study. The individual Graduate Program Committees should be allowed to assign graduate assistants research and/or teaching activities that they feel are appropriate as long as the needs of the program and the Graduate Assistants are being met. Typical examples would be one or more of the following:

- Teaching courses or discussion sections at the undergraduate level;
- Instructing and supervising undergraduate-level laboratories or tutorial sections;
- Grading or otherwise evaluating academic performance of undergraduate students;
- Collecting and/or processing research data for faculty members;
- Preparing materials for laboratories or classroom presentations; and
- In general, other duties which involve a direct knowledge and application of knowledge related to the student's field of study would be acceptable. Graduate Assistants should not be utilized solely for clerical duties.

It shall be the responsibility of each Graduate Program Committee, in consultation with the cognizant department chairperson or program director, to draw up an agreement with each Graduate Assistant at the time of appointment which shall specify the stipend, duration and method of payment; the Assistant's duties; and the general conditions of employment. The agreement shall be reviewed by the
Graduate Assistant before it is signed by him/her and the chairperson of the Graduate Program Committee. The Graduate Program Committee, upon the recommendation of the Graduate Assistant’s faculty supervisor and/or the department chairperson, shall have the responsibility to review the Assistant’s performance and to terminate the appointment for failure to discharge satisfactorily the duties specified in the agreement.

Length of Appointments
Assistantships may be awarded on an academic-year basis, a calendar-year basis, or semester-by-semester basis. Students working toward a master's degree may not hold an assistantship for more than four semesters; Educational Specialist students are limited to four semesters beyond the master's degree; and doctoral students are limited to six semesters beyond the master's degree. These appointments exclude summer sessions and assistantships may be extended on an individual basis upon the recommendation of the Graduate Program Committee of the Department and the approval of the Dean of Graduate Studies and Research.

Justification of New Assistantships
In order to obtain permission to create new Assistantships, whether funded by state appropriations or by outside grants, a brief statement of justification should be submitted for approval of the cognizant College Dean and the Dean of Graduate Studies and Research prior to being sent to the Vice Chancellor for Academic Affairs. This statement should contain:

- qualifications necessary on the part of applicants;
- expected duties;
- relevance of the duties to the student’s graduate training; and
- justification for the Assistantship (as opposed to other job titles).

Deletion and Redistribution of Graduate Assistantships
Presently established Graduate Assistantships which are supported by state funds are allocated to the various departments within each College by the Dean of the College. These Assistantships may, therefore, only be recommended for deletion by the cognizant Dean. Such proposed recommendations must be submitted to the Dean for Graduate Studies and Research for review and recommendation prior to being sent to the Vice Chancellor for Academic Affairs. Assistantships supported by outside funding normally will be terminated automatically when the funding ceases. No special approval is required in such cases. The Dean for Graduate Studies and Research should also be notified of any proposed redistribution of Graduate Assistant lines from one department to another.

Regents’ Tuition Waivers
Regents’ Tuition Waivers are available to a limited number of graduate students who have been admitted to graduate degree programs. Eligibility is based on academic qualifications and financial need. Awards are made on a competitive basis. Information and application forms are available from the Office of Graduate Studies, 204 Eppley Administration Building.

Student Financial Aid
Stafford Loan, SLS Loan, certain scholarships, Perkins Loan and College Work-Study are all forms of financial assistance which UNO graduate students may be awarded. In order to apply, a student should submit a Family Financial Statement (FFS) to ACT Student Financial Services (Iowa City, Iowa) preferably by March 1 prior to the academic year for which assistance is needed. FFS forms and other, more detailed information about financial aid opportunities, are available from the Office of Financial Aid, 103 Eppley Administration Building.

Perkins Loan
The Perkins Loan program provides low-interest loan assistance to eligible graduate students. The current interest rate is five percent; however, interest accrual and loan repayment do not begin until nine months after the recipient graduates, or drops to less than half-time status. Full-time enrollment (at least nine graduate credit hours) is normally required before the Perkins Loan funds can be disbursed each semester.

College Work-Study
Graduate students may be considered for College Work-Study assistance, a type of federal aid that provides part-time employment opportunities on campus. Eligible students are paid at least the minimum wage according to the number of hours worked each pay period. An attempt is made, whenever possible, to place students in employment positions related to their fields of study. Enrollment on at least a one-half time basis (four graduate credit hours) is required to participate in the CWS program.

Stafford Loan
The Stafford Loan Program enables eligible graduate students with “financial need” to borrow funds directly from a bank, credit union or other lender to help pay the expenses of their college education. The maximum loan amount per nine month period is $7500 for graduate students. The interest rate is variable; however, interest does not begin to accrue and repayment does not start until six months after the recipient graduates or drops to less than one-half time status. Submission of a Stafford Student Loan Request, available from the Office of Financial Aid, is required, in addition to the Family Financial Statement. Enrollment on at least a one-half time basis (four graduate credit hours) is mandatory before Stafford Loan funds can be disbursed.

SLS
The SLS program provides loan assistance to those independent graduate students, even without “financial need.” The SLS interest rate is variable with a maximum loan amount per academic year of $4,000. SLS application forms and information are available from most lenders, and from the Office of Financial Aid. Submission of the Family Financial Statements is required, and enrollment on at least a one-half time basis is mandatory before SLS funds can be disbursed.
Scholarships

Several scholarship programs at UNO have been established to recognize exceptional scholastic potential and performance by graduate students. Scholarship funds are provided for UNO by corporations, clubs, community organizations and friends of the University. To be considered for scholarship selection, a UNO Scholarship Application must be submitted by December 1 each year.

Each scholarship award is based upon factors stipulated by the donor. UNO offers scholarships to the most worthy, promising applicants who meet the qualifications, one of which is often “financial need.” Therefore, graduate students are encouraged to complete and submit the Family Financial Statement by March 1 each year.

Transfer students must normally complete one academic year of course work at the University before scholarship consideration will be given.

Scholarships specifically earmarked for graduate students include, but are not limited to, the following awards:
- American Indian
- Ezra Kohn Student Research
- Emley Graduate
- Marilyn Martin-Major
- Nelle Boyer/Phi Delta Gamma
- Claire Parker/Phi Delta Gamma
- Mary Ellen Patterson/Phi Delta Gamma
- Lincoln Frost Social Work
- Helen Hansen Graduate
- Rhoden Graduate
- Indian Fellowship
- Ernest Witte Social Work

In addition, graduate students may wish to personally contact the Office of Graduate Studies and Research to inquire about eligibility for assistantship opportunities, fellowships and the Regents' Graduate Tuition Waiver program.

Short-Term Loan Funds

Short-term loan assistance is made available by such donors as the faculty and staff of UNO, the Alumni Association, Faye L. Hickey, Ben Garman, Alpha Kappa Delta, Sigma Gamma Rho, Phi Delta Gamma, UNO Parents Association and Rotary International. Loans from $50 to $200 may be received, and repayment within 30 days is normally required. Application and eligibility information may be obtained from the Office of Financial Aid.

Tuition Refund/Aid Repayment

Students who receive federal financial assistance (other than College Work-Study) and who withdraw or drop to less than half-time status during the tuition refund period will have any tuition refund returned to the aid account from which the assistance was originally authorized. A student who withdraws may also have to repay a portion of the financial aid received. A financial aid recipient should contact the Office of Financial Aid prior to withdrawal from the University.

Service to Disabled Graduate Students

Disabled students seeking financial assistance are required to complete all required applications for aid, meet published deadlines for submitting applications, and verify “need” for assistance. Assistance in completing all applications for financial aid will be provided by the office upon request.

Standards of Satisfactory Academic Progress for Purposes of Financial Aid

Federal regulations require that a student attending an educational institution maintain satisfactory progress in the course of study he/she is pursuing in order to receive financial assistance. The purpose of this policy is to ensure that limited federal financial assistance is disbursed only to those students sincere about pursuing and obtaining their educational objectives.

In order to comply with these regulations, the University of Nebraska at Omaha has established the following standards of satisfactory academic progress. All continuing graduate students who apply for financial aid, must meet these standards before federal assistance can be authorized. New and transfer students may receive financial aid for their first and second semesters of UNO course work without meeting these standards.

The standards for a continuing student will be checked following the completion of the spring semester.

Standards for Purposes of Financial Aid

- A full-time or part-time continuing graduate student must successfully complete (“D” grade or higher) at least two thirds of the total credit hours attempted during the previous fall and spring semesters. Grades earned of Failing (F); No Credit, Failing (NC); Unsatisfactory, Failing (U); Incomplete (I); Withdraw (W and WX); and Audit (AU) are considered unsuccessful completion of credit hours.
- A graduate student must also be in good academic standing at UNO. This is defined as having earned a cumulative grade point average of at least 3.0.
- A student pursuing a graduate degree program may not receive further financial aid if more than 55 graduate credit hours have been completed (90 hours if accepted to the M.S.W. or Ed.S. program).

Reinstatement of Eligibility

Failure to meet any of the standards will cause a student’s financial aid record to be “flagged” for review. The student must submit a written appeal to request that he/she be permitted to continue receiving assistance.

Transfer Students

A graduate student wishing to receive financial aid to attend UNO must arrange to have a Financial Aid Transcript sent to the UNO Office of Financial Aid from each college or university previously attended. This requirement must be met even though no financial aid may have been received at the previous school(s).
Aid Transcript forms are available from the UNO Office of Financial Aid; however, it is the student's responsibility to ensure that all required Financial Aid Transcripts are provided to UNO. Disbursement of aid cannot take place if this requirement is not fulfilled.

STUDENT DEVELOPMENT SERVICES
Career Planning and Placement Services

Career Planning and Placement services assist undergraduates, graduate candidates and alumni from all Colleges of the University in their search for career employment.

Employment counselors aid in assessing students' career goals and identifying related employment opportunities. Literature on local and national employers, career fields, job descriptions, salary surveys, employment trends and job-search techniques are also available. All UNO students can receive personal assistance in resume preparation.

Students completing degrees are encouraged to register with Career Planning and Placement Services by completing a placement file, including resumes. The College Placement Annual, a job search directory of organizations, is available free for registered seniors and alumni.

Teacher credentials are prepared and maintained by Teacher Placement for candidates completing requirements for certification. A complete listing of local and regional teacher vacancies is available to all teacher candidates.

Placement Services
On-Campus Recruiting

Each semester local and regional employers seeking December, May and August graduates visit the campus to conduct interviews with candidates registered with the office. Interested students need to contact the office for specific recruiting dates and sign-up activities.

Placement Services sponsors programs covering numerous career employment topics. These include a career information day in the fall and a teacher preparation day in the spring. Job-Readiness Workshops are offered each semester to help students develop interviewing skills and job-search materials, i.e., letters of application, resumes and other employment tools.

Candidate Referral

Throughout the year, local and regional employers contact the office seeking potential employees. Placement Services refers qualified candidates directly to these employers and assists in arranging candidate interviews.

An effort is made to obtain positions for registered candidates; however, employment cannot be guaranteed.

Students are encouraged to visit Placement Services in 111 Eppley Administration Building. Office hours: 8:00 a.m. to 7:00 p.m. Monday and Tuesday, 8:00 a.m. to 5:00 p.m. Wednesday through Friday; 554-2333.

Career Planning

The career development process assists students, faculty, staff and alumni in exploring career alternatives and making career decisions. Specific career development services are offered through both the Counseling Center, 115 Eppley Administration Building, and Career Planning and Placement Services, 111 Eppley Administration Building.

By exploring the many career alternatives in terms of one's interests, values, needs, abilities and aspirations, individuals will be able to develop career goals consistent with their particular lifestyle. To explore and clarify that personal and unique potential, one may become involved in individual counseling, workshops, testing and test interpretation through the Counseling Center. A comprehensive career information library is available in Career Planning and Placement Services to assist individuals and groups in exploring the world of work, with up-to-date information on employment trends, occupational responsibilities and working conditions, as well as required training and qualifications for hundreds of different career fields.

Office hours for both the Counseling Center (554-2409) and Career Planning and Placement Services (554-2339) are 8:00 a.m. to 7:00 p.m., Monday and Tuesday; 8:00 a.m. to 5:00 p.m., Wednesday-Friday.

COUNSELING SERVICES
Counseling Center

Short-term counseling services are provided to assist UNO students in their educational, emotional-personal and social development. The goal of the Counseling Center is to use all available resources to assist students in making positive adjustments in their academic and personal lives.

The Counseling Center provides a professionally qualified resource team who will assist students in making academic, personal and vocational decisions with the assistance of various assessment tools. The student may talk confidentially with a counselor about concerns regarding family and personal problems, friends and financial difficulties.

Testing is provided by the UNO Testing Center after consultation with a counselor. While there is no single test or group of tests that will "magically" reveal the information a person is seeking, the Counseling Center staff is expertly able to assist students to better understand themselves. Interpretations and explanations of the results of these tests are provided by counselors; further examination of educational, personal and career opportunities can be developed from the exploration of information gained from the test results and counseling sessions.

General counseling services are provided at no charge for students and other members of the University community. Appropriate fees are charged for services to people who are not affiliated with the University. The Counseling Center can act as a referral agency for students, opening the availability of a large number of university and community professional resources for the student.
Students are encouraged to visit the Counseling Center in 115 Eppley Administration Building. Office Hours are 8:00 a.m. to 7:00 p.m., Monday and Tuesday; 8:00 a.m. to 5:00 p.m., Wednesday-Friday; 554-2409.

Services for the Disabled
This service unit provides counseling to disabled students as well as providing a forum to discuss and initiate needed services for the students. Specific services may be provided to students with mobility, vision and hearing impairments as well as students with certified learning disabilities. Interpreter services for hearing impaired students are provided for qualified applicants.

In compliance with the Rehabilitation Act of 1973 (Section 504) a disabled student who is enrolled in a course located in a "non-accessible" room may request:
1. to be transferred to another section of the course which is accessible; or
2. to have the location of the course changed to an accessible room.

Prospective students wishing to receive the information concerning services for disabled students should complete the "Special Needs Information" section on the application for admission or contact the Coordinator for Counseling, Counseling Center, 115 Eppley Administration Building, 554-2409.

The 504 coordinator at UNO is the Vice Chancellor, Educational and Student Services, 211 Eppley Administration Building, 554-2779.

Health Services
Health Services are available free of charge to all students. Nominal fees may be charged for some laboratory tests. Health Services is located in the Milo Bail Student Center and is open Monday and Friday 8:00 a.m. to 5:00 p.m.; Tuesday through Thursday 8:00 a.m. to 6:00 p.m. Physician appointments are available 20 hours per week, including both morning and afternoon appointment times. First-aid treatment for minor illnesses and accidents, with referrals when necessary, are also available. Preventive health measures are a primary concern and include blood-pressure checks, vision tests and flu shots. Programming related to alcohol and drug awareness is coordinated through Health Services.

Applications must be made through Health Services for both temporary and permanent handicapped parking permits. The telephone number is 554-2374.

Health Insurance for Students
All UNO students, both graduate and undergraduate, carrying six or more hours have the option of contracting for accident and sickness insurance through a group plan made available by the University with a commercial insurance carrier at reduced premiums. Graduate students needing less than six hours to complete degree requirements are also eligible for this plan. If you are not protected for accident and sickness under a policy held by your parents, or one that you or your spouse have purchased privately, you are encouraged to participate in this or some other health care plan. Coverage for injury and sickness is the full responsibility of each student. The current student health insurance plan is a unique plan with no deductibles and provides 100 percent payment for most medical treatment when rendered by a physician or hospital affiliated with Option One, a local preferred provider organization. For additional information, contact Health Services, Milo Bail Student Center, 554-2374.

Multicultural Affairs
In support of other university services, the Office of Multicultural Affairs develops and administers programs designed to recruit and retain students of color as they pursue and achieve their academic goals. The office collects and disseminates information concerning scholarship opportunities in higher education. Additionally, cultural programs are designed and coordinated to enhance multicultural awareness and appreciation at the UNO campus, as well as assist other on and off-campus agencies which hold similar missions. The Office of Multicultural Affairs is located in 115, Eppley Administration Building, 554-2248.

Testing Center
A variety of testing services is available through the UNO Testing Center, located in Room 113, Eppley Administration Building, 554-4600. Among these are the Graduate Record Examination, Miller Analogies Test, Graduate Management Admission Test, Law School Admission Test, Test of English as a Foreign Language and Medical College Admission Test. Graduate students also may utilize the Testing Center's aptitude, interest and psychological testing services. These exams are administered on a daily basis upon the recommendation of UNO Counseling Center personnel.

No graduate credit may be earned by examination; however, students applying for entrance into graduate school should consider Credit by Examination for completion of undergraduate requirements where possible. These may be met through either of two types of Credit by Examination available at UNO: The College-Level Examination Program (CLEP) which offers tests for credit in many subject areas; and UNO's Special Examination Program which involves challenging for credit any undergraduate course taught at the University by taking a departmental examination.

Learning Center
The Learning Center offers a variety of academic support skills designed to aid all students. Services offered at the Center include tutorials, study skills workshops and seminars, and individualized learning assessment of study and learning styles. A microcomputer lab is available for student use along with a variety of computer-assisted instructional software. Contact the Center for additional information. Office hours are from 8:00 a.m. to 7:00 p.m. Monday through Thursday, 8:00 a.m. to 5:00 p.m. Friday, and 9:00 a.m. to noon on Saturday. The Center is located in 117 Eppley Administration Building; 554-2992.
Student Employment Services
UNO students seeking off-campus or on-campus, work-study or part-time employment should visit Student Employment Services in the Career Planning and Placement Services Office in 111 Eppley Administration Building.

Employment counselors are available to assist students in finding employment, matching job with career interest where possible. Programs about job search skills and interviewing techniques offered by Career Planning and Placement Services are available to all students. Students seeking part-time and full-time summer jobs may utilize these services.

A Career Fair is sponsored each year which provides students with an opportunity to meet and interview with interested employers on campus.

Current listings of available part-time jobs are posted on bulletin boards outside 111 Eppley Administration Building.

Full-time career opportunities also are available in the Career Planning and Placement Services Office. Office hours: Monday and Tuesday, 8:00 a.m. to 7:00 p.m., Wednesday through Friday 8:00 a.m. to 5:00 p.m. Contact 554-2885 or 554-2333 for more information.
ADMISSION TO GRADUATE STUDIES AT UNO

Every applicant for admission to graduate studies at UNO should understand that graduate work is not a simple extension of an undergraduate program but, rather, demands scholarship of a higher order, and emphasizes research, creativity and professional competence.

Admission Procedures and Regulations

A summary of the procedures for admission to graduate studies at UNO can be found on page seven. An Application for Admission must be filed not only by those students desiring to work for a degree, but also by students desiring graduate credit for a renewal of a teacher's certificate, for professional development or for graduate credit to be transferred to some other university.

In order to receive graduate credit for any courses taken at UNO, the student must have been admitted to graduate studies at UNO, must have been admitted to graduate studies at another campus of the University of Nebraska or must have received special permission as a senior.

Please be aware that notification of acceptance by a department Graduate Program Committee or faculty member is advisory only. Admission is granted solely by the Dean for Graduate Studies and Research.

All credentials received in connection with an application for admission to graduate studies at UNO become the property of UNO. Under no circumstances will they be duplicated, returned to the applicant or forwarded to any agency or other institution.

In order to be considered for admission in a given semester, all documents must have been submitted to the Office of Admissions no later than the following deadlines for:

- Fall Semester — July 1
- Spring Semester — December 1
- First Summer Session — April 1
- Second Summer Session — June 1

The above deadlines are the minimum requirements for all programs. Some programs have earlier deadlines. For example:

Students in the MBA program are admitted only three times a year and applicants must have credentials on file by July 1 for the Fall Semester and by December 1 for the Spring Semester and for the Summer Sessions.

Students in the Counseling programs are admitted only twice each year and applicants must complete all requirements for admission by March 30 for either Summer Session and for the Fall Semester and by October 31 for the Spring Semester.

Students are admitted to the graduate programs of the Department of Psychology twice each year except for School Psychology and Industrial/Organizational Psychology. All application materials must be submitted by February 15 for admission for the following fall semester and by September 15 for the following spring semester.

The School Psychology and the Industrial/Organizational Psychology programs admit students once a year.

To be considered applicants must submit admission materials by February 15. The above dates include new applicants to the program as well as students applying for readmission.

Students in Social Work are encouraged to complete the application process early for admission (e.g., by March 1 for fall and October 1 for spring.) Students entering the 63-hour program may start only in the Fall Semester. Advanced standing students may enter the 39-hour program in the fall and spring. Please refer to the Social Work section later in the catalog for additional admission policies and procedures.

Students in Educational Administration and Supervision must have the application and all credentials on file by April 1 for the Fall Semester; May 1 for the Summer Sessions and November 15 for the Spring Semester.

Special Procedures for Students Whose Language of Nurture Is not English

Students whose language of nurture is not English must have a command of oral and written English adequate for graduate work. All applicants to Graduate Studies at UNO whose language of nurture is not English must present a score on the Test of English as a Foreign Language (TOEFL) along with their Application for Admission. Automatic waivers from this policy are granted for persons who already have received a baccalaureate or equivalent degree from an English-speaking institution of higher education in the United States, the United Kingdom, Canada, English-speaking Africa, Australia, Ireland or New Zealand.

A minimum score of 550 is required for admission of all those who must present a TOEFL score. If the minimum score is not attained, the admission application shall be forwarded to the program's Graduate Program Committee with the TOEFL score. The Graduate Program Committee may recommend to the Dean for Graduate Studies and Research that the applicant be admitted on the basis of other evidence of the applicant's language skills in English and potential for success in graduate work at UNO.

Non-Immigrant applicants must contact the Office of Admissions concerning the filing of required financial documents.

The above requirements are in addition to any requirements established by any individual Graduate Program Committees.

Admission to a Degree Program - Categories

Unconditional Admission

Unconditional admission to graduate studies may be granted to an applicant who satisfies all the following conditions:

- Has earned a baccalaureate degree from a regionally accredited institution;
- Has earned at least a "B" average in the undergraduate work in the proposed graduate major and minor (if applicable);
• Has earned at least 15 semester hours of undergraduate work that meet specific requirements of the departments in the proposed major and minor (if applicable);
• Has submitted appropriate scores on the required aptitude or advanced knowledge tests to the Office of Graduate Studies.

Provisional Admission

Students who have not met all the conditions for unconditional admission may still be admitted to the program. However, departments and/or the Dean for Graduate Studies and Research may impose certain requirements which must be fulfilled by the student in order to maintain this status.

Provisional admission may be granted to an applicant who has less than a "B" average in the undergraduate work in the proposed graduate major and minor (but in no case less than a "C" average). This admission may be granted for reasons of maturity, experience or other circumstances under which the student may be deemed capable of high quality graduate study.

Provisional admission will not be removed until the student has earned at least the grade of "B" in each course involved in the first 12 hours of graduate study. A grade of "C" or below in any of these courses will result in automatic dismissal.

Provisional admission may occasionally be granted to an applicant who has graduated from an unaccredited institution. Unconditional status may be attained upon completion of 12 hours of graduate courses with a "B" average, providing all other requirements are met.

Provisional admission occasionally may be granted to seniors at this University needing not more than nine hours of undergraduate credit to complete their baccalaureate degree and wishing to register for graduate credit, subject to their receiving their baccalaureate degree within the twelve-month period immediately following such registration. They must, however, apply for admission to graduate studies and, if admitted, they should register as graduate students. Graduate course work taken prior to receipt of the baccalaureate degree may not always be accepted for transfer to other institutions as graduate work or for completion of degree requirements at the University of Nebraska at Omaha.

Provisional admission may occasionally be granted to an applicant who has not submitted the required aptitude or advanced knowledge test score(s). The student must, however, submit the score prior to the second registration as a graduate student.

Provisional status will continue until changed by the recommendation of the Graduate Program Committee and approved by the Dean for Graduate Studies and Research. Provisional status is automatically changed to Unconditional status upon admission to candidacy for the degree.

Admission to Unclassified (Non-Degree) Status

Unclassified admission is available in some departments/areas for students who:

• Are taking courses for professional growth or personal interest, but do not intend to pursue an advanced degree.
• Are enrolled in a graduate degree program at another institution and wish to transfer credits earned at UNO.
• Are working toward certification, additional endorsement, or renewal of certification in professional education.

Students applying for the unclassified category are not automatically entitled to this status upon application for it. The department reviews these applications and the student may, in fact, be turned down for this category as with other categories.

Information on the availability of this option may be obtained from the department/area or from the Office of Graduate Studies. In particular, the MBA program does not admit students to Unclassified status.

NOTE: Successful completion of graduate courses as an Unclassified student does not obligate a graduate department/area to accept those courses for credit toward the fulfillment of degree requirements. Students who have enrolled under the Unclassified designation and who subsequently decide that they wish to pursue a graduate degree must complete and file a Request for Change form with the Office of Graduate Studies. If admission to a degree program is sought and granted, and the applicant petitions for the inclusion of graduate credit earned while holding Unclassified status, such course credit(s) may be accepted toward a degree at the discretion of the cognizant Graduate Program Committee. An approved Request for Change must be accompanied by a departmental recommendation if any specified credit hours earned while in the Unclassified status are to be counted toward the degree.

Special Permission to Register for Graduate Credit

Seniors at an Accredited Institution

Seniors at an accredited institution (including UNO) who have obtained in advance the approval of the appropriate campus Dean for Graduate Studies may receive up to 12 hours of graduate credit for courses taken at any campus of the University of Nebraska in addition to the courses necessary to complete their undergraduate work, provided that such credits are earned within the 12 months prior to receipt of the baccalaureate degree and that the student must have at least a "B" average in the undergraduate major. Seniors are allowed to enroll only in courses designated 8-5 or 8-6. Graduate coursework taken prior to receipt of the baccalaureate degree may not always be accepted for transfer to other institutions as graduate work or for completion of degree requirements at the University of Nebraska at Omaha.

Temporary Admission

When unexpected circumstances preclude processing applications for Unconditional, Provisional or Unclassified admission, the Dean for Graduate Studies and Research may issue a Temporary Admission.
The temporary admission category may be used only once by a student unless the student did not register for courses during the semester the temporary was used. A student enrolling with temporary admission must, within the first eight weeks of the semester, furnish the Office of Admissions with all materials required by the cognizant department/area (including official transcripts of all graduate and undergraduate work, one of which must show an earned baccalaureate degree or the equivalent, or a statement from the graduate office of another institution indicating that the student is in good standing in a graduate-level degree program at the institution).

During the summer sessions the student has two weeks to provide this information. Students who fail to furnish such materials will be disenrolled by the Dean for Graduate Studies and Research from all graduate courses at the end of the eight-week period (two weeks in the summer), and will not be permitted to attend classes beyond that date.

Students seeking admission to a degree program must realize that even if all admission materials are presented, the Graduate Program Committee evaluating these materials may deny admission to the program. If this occurs, a determination will be made as to whether the student may continue graduate studies in the Unclassified status or will be disenrolled from all graduate courses.

Applicants should be aware that not all departments/areas will allow registration using a Graduate Temporary Admission form.

Graduate Students from Another Campus of the University of Nebraska

Students who have been admitted to graduate studies at another campus of the University of Nebraska may register for graduate courses at UNO by using an Intercampus Registration Form. Copies of the form and information on its use can be obtained from the Office of Graduate Studies at any campus.

Doctoral Studies

Students who seek information about doctoral studies should contact the Office of Graduate Studies.

REQUIRED APTITUDE OR ADVANCED KNOWLEDGE TESTS

The scores on nationally recognized aptitude or advanced knowledge tests are used by some Graduate Program Committees to provide evidence of an applicant's potential to perform at the graduate level and to provide guidance in the development of an appropriate plan of study for each student admitted to the degree program. The UNO Graduate Faculty recognize the following tests, subject to department/area selection, for this purpose: the Graduate Record Examination (GRE), the Graduate Management Admission Test (GMAT) and the Miller Analogies Test (MAT).

A student with Unclassified status is not required to submit scores on aptitude or advanced knowledge tests. Admission requirements for each degree program are determined by the cognizant Graduate Program Committee.

The following graduate programs require that a score on the indicated standardized test(s) must be on file prior to admission:

- Biology – GRE General Aptitude required, Advanced GRE encouraged.
- Business Administration – GMAT
- Counseling – MAT and other specialized tests designated by the department
- English – GRE General Aptitude or MAT
- Professional Accounting – GMAT or GRE General Aptitude
- Psychology – GRE General Aptitude
- Social Gerontology – GRE General Aptitude or MAT
- Social Work – GRE General Aptitude or MAT
- Sociology – GRE General Aptitude
- Special Education and Communication Disorders – GRE General Aptitude or MAT

The following graduate programs do not require a standardized test score for admission, but do require that a score be on file before the second enrollment:

- Criminal Justice – GRE General Aptitude, MAT, GMAT or LSAT
- Dramatic Arts – GRE General Aptitude or MAT
- Music – Either Advanced GRE or the departmental diagnostic examination
- Teacher Education – GRE General Aptitude or MAT

The following graduate program does not require a standardized test score prior to admission, but does require that a score be on file prior to candidacy:

- Educational Administration and Supervision – GRE General Aptitude or MAT; and PPST

The following graduate programs require no standardized test scores at any point:

- Communication
- Computer Science
- Economics
  (Students are encouraged, however, to include test scores as supporting evidence when applying.)
- Geography
  (Students are encouraged, however, to include GRE General Aptitude scores as supporting evidence when applying, especially if they are interested in a graduate assistantship.)
- Health, Physical Education and Recreation
- History
- MAT (Mathematics for Teachers)
- Mathematics
- Public Administration/Urban Studies

The GRE, GMAT and MAT are administered at many sites throughout the nation and the world. At UNO, the tests are given under the supervision of the Coordinator of the Testing Center, Eppley Administration Building. Information, registration forms and testing dates are available from the Testing Center or from the Office of Graduate Studies. A fee is charged and advance registration may be required. Students should request the scores be sent to the Office of Graduate Studies; applicants for the Master of Business Administration or for
the Master of Professional Accounting programs should also request that the scores be sent to the College of Business Administration or to the Accounting Program, respectively.

Test of English as a Foreign Language
The Test of English as a Foreign Language (TOEFL) international examination is administered at many sites throughout the world, including the UNO Testing Center. In addition, a local administration, the results of which can be used only at UNO, is available at the UNO Testing Center at frequent intervals.

READMISSION TO GRADUATE STUDIES
Anyone who has previously been enrolled as a graduate student at UNO, but who has not attended for two calendar years, must be readmitted to graduate studies before again registering for classes. Students in Business, Communication, Geography, Psychology, and Social Work must obtain readmission approval from their department/area. All students seeking readmission must obtain approval by the Dean for Graduate Studies and Research. In order to be readmitted, the student must complete the Readmission Application form indicating the department/area to which they were last admitted; change of program and/or category of admission can be accomplished subsequent to readmission. Students are advised to complete the readmission process prior to registration.

REGISTRATION
All persons who attend classes at the University must have been admitted to the University; they are required to register and pay the established tuition and fees. The dates, times, locations and procedures for registration are listed each semester in the "Class Schedule" which is available at the Office of the Registrar. No registration will be allowed after the registration times listed in the class schedule except for thesis or independent study hours.

ADMISSION TO CANDIDACY FOR THE DEGREE
Students are eligible to receive a graduate degree only if they have been formally admitted to candidacy for the degree and have satisfied all requirements. It is the student's responsibility to make application for admission to candidacy for the degree as soon as they are eligible to do so and at least one-half of the approved plan of study must be completed following the approval of the Application for Admission to Candidacy. Each application should provide evidence that the student is capable of graduate-level performance and should contain a coherent plan of study leading to the degree that conforms to all policies of the UNO Graduate Faculty and of the cognizant graduate department(s). No degree can be awarded in the same semester in which the student is admitted to candidacy for the degree.

Eligibility
Eligibility for admission to candidacy for the degree is established when all the following conditions are met:

- An official transcript showing the receipt of an appropriate baccalaureate degree is on file in the Office of Graduate Studies.
- The scores on all required aptitude or advanced knowledge tests are on file in the Office of Graduate Studies.
- A minimum of six hours of graduate courses to be included in the plan of study have been completed within the University of Nebraska.
- With no grade lower than a "C", a "B" average has been earned on all completed course work included in the plan of study.
- Any "Incomplete" ("I") or "No Report" ("NR") grade received in a course (excluding thesis or special research projects) included in the plan of study has been removed prior to filing the application. In unusual circumstances, the cognizant Graduate Program Committee may recommend, in writing, to the Dean for Graduate Studies and Research that an application be approved, even though it contains one "I" grade in the plan of study.
- All additional requirements of the department/area have been met.

Procedures
An application form for admission to candidacy for the degree is obtained from the adviser or from the Office of Graduate Studies. The form should be completed by the student, in consultation with the major (and minor) adviser. The program should be carefully and completely planned at this time. The application form should be signed by the student and then by the adviser(s), who should then submit the form to the department/area Graduate Program Committee. When the application has been approved by the Committee and all required department/area signatures obtained, the application should be forwarded to the Dean for Graduate Studies and Research for review and final decision.

When the student has been admitted to candidacy for the degree, written notification will be sent to the student and to the adviser.

Guidelines for Construction of a Plan of Study
Every plan of study should conform to all policies of the UNO Graduate Faculty and of the cognizant graduate department(s). The following general guidelines should aid students and advisers to construct a plan of study:

- At least one-half the hours of non-thesis course work on a plan of study should be in courses which are restricted to graduate students only (6-0 or 9—).
- A plan of study for an Option I Master of Arts or Master of Science degree should have at least six hours of thesis and a minimum of 24 semester hours of non-thesis course work.
- Up to one-third of the course work required for a graduate degree program may be accepted from an accredited institution other than a unit of the University of Nebraska when the transfer is supported by the
student's adviser and the appropriate Graduate Program Committee. Final approval will be made by the UNO Dean of Graduate Studies and Research. All other policies regarding graduate programs will apply.

- BSAD courses 8110, 8120, 8130, 8170 and 8180 may not be used on a plan of study.
- See the section entitled, "Transfer of Graduate Credit".
- Each plan should contain suitable alternatives in case certain courses cannot be included in the program.
- If there are any irregularities (such as courses which were not taken within the time limit for degrees, etc.) in the plan of study or application, a memo explaining these irregularities and stating the recommendation of the Graduate Program Committee should be attached to the application.
- When including transfer hours on an application for candidacy the student must provide:
  1. an official transcript for the hours,
  2. documentation that the course(s) are offered for graduate credit, and
  3. documentation that the course(s) can be used on a plan of study.

In most cases, documentation for points 2 and 3 can be found in the Institutions Graduate Catalog.

Changes in the approved plan can be made after the admission to candidacy has been approved, as long as the changes have the appropriate approvals. Requests for such changes can be made on a form available from the Office of Graduate Studies.

**THEESIS OPTION**

A thesis provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Students in many degree programs may elect a thesis option. In other programs all students are required to write a thesis. The thesis must be assigned a total of at least six hours of graduate credit on the approved plan of study. The field project must be assigned a total of three hours of graduate credit on the approved plan of study.

For each student pursuing a thesis option, the Dean for Graduate Studies and Research appoints a supervisory committee. For information on the appointment of such committees, see the supervisory committee section in this Graduate Catalog. The supervisory committee should be appointed as early in the student’s program as possible. The committee shall supervise all aspects of the thesis project and approve the final form of the thesis.

The thesis should be initiated no later than eight months before the anticipated date of graduation in order to provide sufficient time for research, writing and examination. It is the responsibility of the student to follow all regulations contained in the pamphlet, "Instructions for the Preparation of Theses, Thesis-Equivalent Projects, and Ed.S. Field Projects," a copy of which can be obtained in the Office of Graduate Studies.

The student must have an oral defense of the thesis. At that time, the supervisory committee must: (1) sign the Degree Completion Report, and (2) the acceptance page of the thesis.

Submitted theses, other than the original, may contain a xerox copy of the original acceptance page.

An abstract of no more than two pages in length and conforming to the thesis or thesis-equivalent project in respect to margins and spacing must be placed in the thesis or thesis-equivalent project following the acceptance page.

The student should then have the desired number of copies of the thesis made. Two copies, the original and one additional, are required for the Library. Students may wish to have additional copies for themselves, for the department and/or adviser, or for others. The cost of binding all copies is to be paid by the student before submitting the final copies of the thesis to the Office of Graduate Studies. The final copies with signatures of the supervisory committee members on the approval sheets of all copies must be submitted no later than 12 working days prior to the anticipated date of graduation.

Once the thesis has been accepted by the Office of Graduate Studies, the "IP" grade is changed to "S" (Satisfactory) or "U" (Unsatisfactory).

**Guidelines for Establishing Thesis-Equivalent Projects**

Theses-like projects should be of the same caliber of scholarly work as a thesis. The student will research, develop and analyze a topic approved by the Supervisory Committee. Departments desiring to use the thesis-equivalent category must apply to the Graduate Council for approval. The following guidelines are to insure that these projects are, so far as possible, equivalent to theses in scope, evaluation and process.

- The work on the project should commence at least eight months prior to the expected date of graduation.
- The project should be assigned a total of at least six hours of graduate credit on the approved plan of study.
- The process for development and approval of the project must include all of the following:
  - appointment of a supervisory committee;
  - a proposal to be approved by the supervisory committee;
  - monitoring of the project by the supervisory committee;
  - an oral examination over the completed written product conducted by the supervisory committee; and
  - final approval by the supervisory committee.
- The written product must satisfy the specifications to be found in the booklet, "Instruction for the Preparation of the Thesis, Thesis-Equivalent Project and Ed.S. Field Projects."
An abstract of no more than two pages in length and conforming to the thesis or thesis-equivalent project in respect to margins and spacing must be placed in the thesis or thesis-equivalent project following the acceptance page.

- The approved written product will be submitted to the Office of Graduate Studies before the advertised deadline for theses, bound at the student’s expense and deposited in the Library.

- The final grade on the project will be either “S” (Satisfactory) or “U” (Unsatisfactory).

**FINAL COMPREHENSIVE EXAMINATIONS**

A final comprehensive examination is required of all candidates for the Master’s degree. There are four exceptions to this rule where an alternative measure of mastery has been approved: the Master of Business Administration; Master of Professional Accounting; the M.A. or M.S. with a major in Psychology, Educational Psychology or Industrial/Organizational Psychology; and the M.A. or M.S. with a major in Speech Language Pathology.

The comprehensive examinations should be taken near the conclusion of the students’ programs and should measure the students’ knowledge and ability to synthesize that knowledge in the analysis of questions involving more than one concept. For those candidates not writing a thesis, the examination is a written one. For those candidates writing a thesis, the final comprehensive examination may be either written or oral at the option of the cognizant department/area. If the comprehensive is to be written, it will be arranged by the department/area Graduate Program Committee. 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.

If the student has a defined minor, the minor adviser may require that the student take a comprehensive examination over the minor field. If such an examination is given, it should be 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.

Most graduate departments require students to register for the comprehensive examinations at the time of their final enrollment; however, students should check with their advisers early in their programs to determine departmental policy concerning the administration of the final comprehensive examinations.

Results of comprehensive examinations must be submitted to the Office of Graduate Studies by the Graduate Program Committee no later than 12 working days before the anticipated date for the conferral of the degree.

**CONFERRING OF DEGREES**

Degrees are conferred at the regular commencement exercises in May, December and August. Only those students who have completed all procedures and requirements may participate in commencement exercises. Attendance at the commencement exercises when the degree is conferred is requested of all candidates. Appropriate academic costume must be worn.

The Graduate College will not approve any changes in the student’s permanent record once the graduate degree is awarded.

**QUALITY OF WORK STANDARDS**

Graduate students are expected to do work of high caliber. Failure to do so will result in at least temporary dismissal from the degree program or from graduate standing. In particular, any one of the following will result in automatic dismissal from the degree program for those students with Unconditional or Provisional admission to a degree program:

- A grade of “C+” or below in any course involved in the first 12 hours of graduate study for provisionally admitted students;
- Failure to maintain a “B” average in all graduate work taken as part of the degree program;
- Receiving at least nine hours of graduate credit with the grade of “C” or “C+” in any courses taken in the student’s major field of study or in any courses included in the plan of study, regardless of the average;
- Receiving a grade of “D+”, “D”, or “F” in any course taken in the student's major field of study or in any course included in the plan of study;
- Departments may have additional and more stringent criteria for evaluating a student’s performance and progress and may demand a higher level of performance than that demanded by the Graduate College. A department or program unit may, under some circumstances, recommend dismissal of a student from a graduate program even though a 3.0 grade point average has been maintained. Grounds for dismissal could include, but are not limited to: failure to be accepted by an appropriate thesis or dissertation adviser within stipulated time limitations; failure to make timely progress toward the degree; and failure to perform in course work, qualifying examination or research at an acceptable level in the respective department or program unit.

Those departments that apply additional criteria of satisfactory performance beyond the requirements of the Graduate College shall conduct an annual review and evaluation of their students’ progress in meeting degree requirements. Normally the Graduate Program Committee of the department shall conduct this review in consultation with the student’s adviser. However, the review may be done by other methods designated by the department.
A copy of the department's policy should be on file in the
Graduate Office and a copy distributed to every graduate
student enrolled in the program.

For students with Unclassified admission, the above
quality of work standards apply to course work taken, just
as if all such courses were included in a graduate plan of
study. A student will be automatically dismissed from all
graduate standing should any of the above conditions
occur.

A student who has been dismissed for failure to meet
the Quality of Work standards may petition the cognizant
Graduate Program Committee for any of the following:
• Unconditional reinstatement to the degree program
  (if appropriate);
• Reinstatement with Unclassified status in order to
  retake specific courses, with possible readmission to
  the degree program;
• Reinstatement with Unclassified status.

The recommendation of the Graduate Program
Committee will be forwarded to the Dean for Graduate
Studies and Research; only the Dean can actually
readmit the student. The student will be informed by the
Office of Graduate Studies of the Dean's decision on the
reinstatement petition.

TRANSFER OF GRADUATE CREDIT

Approval of transfer of graduate credit for course work
taken at another accredited university (including
extension credit but not including correspondence
courses) is made at the time of admission to candidacy for
the degree. Grades received in courses for transfer of
credit must be the equivalent of "B" or higher. Transfer of
graduate credits from a course taken with a pass/fail
option must be recommended by the cognizant Graduate
Program Committee, supported by a written evaluation
from the instructor and approved by the Dean for Graduate
Studies and Research. All work accepted for transfer of
credit must have been taken within the prescribed time
limits for graduate degrees and is subject to restriction if
previously used to satisfy requirements for another
graduate degree.

The only course work from other institutions posted on
the UNO transcript will be those used on the approved
plan of study. This course work will be posted at the time
of graduation.

Transfer of Credits Taken
Outside the University of Nebraska

Up to one-third of the course work required for a
graduate degree program may be accepted from an
accredited institution other than a unit of the University of
Nebraska when the transfer is supported by the student's
adviser and the appropriate Graduate Program
Committee. Final approval will be made by the UNO Dean
of Graduate Studies and Research. All other policies
regarding graduate programs will apply.

Transfer of Credits Taken
at the University of Nebraska

There are no a priori limits on the transfer and
applicability of credits earned in one program of the
University of Nebraska toward meeting degree
requirements in another such program, except as they are
used to earn distinct degrees. However, such credits must
be individually evaluated and approved by the appropriate
Graduate Program Committee and campus Dean for
Graduate Studies before they can actually be transferred.
UNO students who wish to take courses at the University
of Nebraska-Lincoln, the University of Nebraska Medical
Center, or the University of Nebraska at Kearney for
transfer of credit should obtain an Intercampus
Registration Form from the Office of Graduate Studies.

Normally, no graduate student should be admitted to
graduate programs on more than one campus at the
University of Nebraska simultaneously. Any exceptions
must have prior approval of every Graduate Program
Committee and every campus Dean for Graduate Studies
through which the programs are administratively assigned.

SECOND MASTER'S DEGREE

Use of graduate credit earned for the first degree will be
treated in the same manner as transfer credit from another
institution if applied to the requirements for the second
degree.

INCOMPLETES

Purpose

The grade "Incomplete" ("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 the student is registered for credit. "Incompletes"
should be given only if the student has already
substantially completed the major requirements of the
course. Each instructor must judge each situation as to
whether an "I" is appropriate. In most cases an
"Incomplete" must be removed after one semester;
check with the department or the Office of Graduate Studies for
those courses excluded from the one semester
requirement.

Removal

Instructors must indicate by a departmental record, with
a copy to the students, the means and the deadline by
which an "I" is to be removed; and if they are at the
University at the time of the removal, they must
supervise the make-up work and report the permanent
degree. In the event that the instructor is not available at the
time of the application for removal of an "I", the
department chairperson shall supervise the removal of the
Incomplete and turn in the permanent grade for the
student. All grades of "I" on courses which are part of the
degree requirements (except those taken in the final
semester) must be removed at least 12 working days.
before conferral of the degree. Forms to remove grades of
"I" should be submitted to the Office of Graduate Studies.
Grades of "$I" must be removed within one semester
(excluding summer sessions) after they have been
awarded or they will be turned into a grade of "F" by the
Office of Graduate Studies. Any extensions to the one-
semester limit must be approved by the Dean for Graduate
Studies and Research prior to the time that the "$I"
reverts to an "F". In a limited number of cases some departments
will allow longer than one semester for the removal of an
"I" in specified courses; contact the department or the
Office of Graduate Studies for details. "Incomplete" grades
in thesis or research courses must be removed within two
years of the date the "I" or "IP" was awarded unless
approval is granted by the Dean for Graduate Studies and
Research for an extension and the student re-enrolls for
the credit.

Accrual of Two or More Incompletes
Two or more "$I" grades (excluding thesis or research
courses) will result in a stop enrollment for any new
courses; the stop enrollment will stay in effect until the
record shows no more than one "$I" grade.

TIME LIMIT FOR GRADUATE DEGREES
The degree program (as defined in the plan of study) for
a Master's and Ed.S. degrees must be completed within
six consecutive calendar years. The first day of class of
the earliest course which appears in the last 36 semester
hours of the student's plan of study is the beginning of
the student's graduate education. Course work which would
be taken between six and 10 years prior to completion of
the degree program defined in the plan of study can be
submitted for validation on an individual basis. Course
work which would be over 10 years old cannot be
submitted for validation.

If students wish to use an outdated course (six to 10
years old) in a plan of study, they have two options
available:
• retake the course; or
• obtain written permission to update the course from
the department involved, the cognizant Graduate
Program Committee and the Dean for Graduate
Studies and Research.

Updating can usually be done by taking a special
examination or the current semester's final examination in
the course. The grade of the examination must be filed
with the Office of Graduate Studies and must be a grade of
"B" or higher; otherwise, the student shall be required to
retake the course or to substitute another course in the
plan of study. In some graduate programs some special
exceptions are made with approval of the Graduate
Council. Consult with the Graduate Program Committee.

OTHER POLICIES
Auditing Courses Offered for Graduate Credit
In order to audit courses for graduate credit, students
must be admitted to graduate studies. Permission of the
adviser and approval of the instructor of the course should
be obtained prior to registration. It is the instructor's
prerogative to determine privileges, including examinations
connected with the course. Students registered for credit
may change to audit registration during the first 11 weeks
of a semester or during the first half of a class if it runs
longer or shorter than a semester.

Change of Graduate Degree Program
Students who wish to change their graduate degree
programs should obtain the appropriate form from the
Office of Graduate Studies; procedures are explained on
the form. The decision as to whether students
requesting a change will be accepted shall be left to the
Graduate Program Committee of the department/area in
which they are seeking admission and to the Dean for
Graduate Studies and Research. Students who have two
or more grades of "Incomplete" on their records are not
eligible to change degree programs.

Full Time Status
Full-time graduate students at the University of
Nebraska shall be defined as students enrolled for at least
nine credit hours during an academic semester or at least
three hours during a five-week summer session,
irrespective of whether or not the student holds a
graduate assistantship.

Students enrolling for more than 12 hours must have the
approval of the Dean for Graduate Studies and Research. In
some programs special permission may be granted to take
more than 12 hours as a regular load. Students should
consult with the department for provisions.

Courses Offered for Graduate Credit
Courses which are available for graduate credit are
those which have been approved by the UNO Graduate
Faculty or its designee. All syllabi for courses approved for
graduate credit are on file in the Office of Graduate
Studies. Students will not be allowed to upgrade or retake
courses previously taken for undergraduate credit so that
they can be used for any purpose where graduate credit is
required.

A numbering system is used to indicate the availability
and level of courses for graduate credit, as follows:
3—/6—5 (e.g., 3110/8115) or 4—/6—6

Courses with these numbers are open to both
undergraduate and graduate students. Only 8—5 and 8—6
receive graduate credit; it is expected that students
enrolled for graduate credit will do work at a higher level
than that which is expected of undergraduate students in
the same course. Some seniors, with special permission,
may enroll for graduate credit in such courses; see
"Admission to Graduate Studies at UNO - Special
Permission to Register for Graduate Credit".

8—0 or 9—

Courses with these numbers are open to graduate
students only.
Credit/No Credit Option for Courses Offered for Graduate Credit
The UNO Graduate Faculty does not, in general, allow the Credit/No Credit option for courses offered for graduate credit. However, each Graduate Program Committee shall have the right to designate courses such as practica, independent studies or research courses on which this option could apply. Inquire in the Office of Graduate Studies about the availability of this option for specific courses.

The grade of "Credit" is interpreted to mean the equivalent of a grade of "B" or better and is not considered in the calculation of grade point averages.

Dropping Courses
Students cannot drop courses after the date identified in the academic calendar for that semester. Exceptions may be made when there are extenuating circumstances. Students requesting an exception must obtain the instructor’s certification that work in progress was at the "B" level or higher. Approval of the request must be obtained from the Dean for Graduate Studies and Research before the request to drop is submitted to the Office of the Registrar.

Residency Requirements
All credit hours included in a plan of study leading to a graduate degree must be taken in residency at the University of Nebraska at Omaha, except as provision is made for transfer of credit.

Withdrawal from All Courses
To officially withdraw from all classes and thereby from the University, and to receive any refund due (as well as appropriate posting of academic standing for the grading period in question) graduate students are required to obtain the signatures of the adviser and the UNO Dean for Graduate Studies and Research prior to submitting the withdrawal form to the Office of the Registrar. Any refund of fees will be posted in the Cashier’s Office and published in the class schedule. Failure to withdraw according to this procedure may cause forfeiture of refunds and inappropriate posting of grades.

GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS

Appeal of General Academic Matters Related to Student Programs
A. Graduate students holding admission with Unclassified status in the Graduate College, admission with a Master's objective or admission with a doctoral objective (but prior to the appointment of a doctoral supervisory committee) should appeal as follows:

1. Initially, the appeal may be submitted to the student's adviser.
2. If denied, the appeal may be submitted to the department/area Graduate Program Committee administratively responsible for the student's graduate program.
3. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program. Normally, this will be the final appeals body (for exceptions, see the last part of this section).

B. Graduate students holding admission with a doctoral objective in the Graduate College and for whom a doctoral supervisory committee has been appointed should appeal as follows:

1. Initially, the appeal should be submitted to the student's adviser.
2. If denied, the appeal may be submitted to the student's supervisory committee.
3. If denied, the appeal may be submitted to the department/area Graduate Program Committee administratively responsible for the student's graduate program.
4. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program. Normally, this will be the final appeals body (for exceptions, see the last part of this section).

C. When a student's graduate program consists of registrations essentially or entirely on one campus, the Graduate Council of the campus administratively responsible for the program will constitute the appeal board. When a student's graduate program includes substantial registrations on a campus other than the one administratively responsible for the program, three members of the Graduate Council for the other campus will be designated by the Dean for Graduate Studies on that campus to augment the Graduate Council on the campus administratively responsible for the program.

In this case, the augmented Council will constitute the appeal board. The decision concerning augmentation of a campus Graduate Council for a specific appeal involving registrations on a campus other than the one administratively responsible for the student's program will be made by the Deans for Graduate Studies on the campuses involved.

D. In all cases, appeals should be made in writing to the appropriate adviser, committee or council. In those cases where the appeal concerns graduate-level qualifying exams, comprehensive exams or final oral exams, the following deadlines must be observed. It is the responsibility of the student to make reasonable efforts to ascertain the results of the examination within 30 days after its completion. The initiation of the appeal, in writing, by the student must be filed within 30 days following the student's receipt of notification of the evaluation.

In those cases involving an appeal of termination of program, initiation of the appeal, in writing, by the student must be filed within 30 days following the student's receipt of the official written notification by the Office of Graduate Studies.
E.1. There is no absolute right of appeal to Committee III of the Executive Graduate Council. Committee III will accept appeals only in those cases where in the exercise of its sole discretion it shall first find that one or more of the following grounds for accepting the appeal exist:

a. That the campus Graduate Council has violated some element of fair procedure (example: has failed to allow the parties concerned to present their cases fully to their campus Graduate Council);

b. That the campus Graduate Council has failed to examine or give adequate weight to important evidence relevant to one party's position;

c. That the campus Graduate Council has given undue weight to evidence not pertinent to the case; or

d. That some gross miscarriage of justice would be perpetrated if the decision of the campus Graduate Council is allowed to stand.

A decision by Committee III not to accept jurisdiction of an appeal shall be final and is not subject to further appeal.

2. Appeals to Committee III of the Executive Graduate Council must be made in writing and must specifically outline the grounds for appeal. Such appeal must be made within 20 working days of the day the decision of the campus council is received (working days shall not include those days the University is not in session).

3. Committee III of the Executive Graduate Council must make a decision to hear the appeal or not to hear the appeal within 30 working days after receipt of the appeal. Acceptance or denial of jurisdiction over the appeal will be made in writing.

4. The decision of the Committee on the merits of the case will be made and transmitted to the concerned parties within 40 working days after the decision to hear the appeal.

5. No person who was a member of the department or campus graduate council involved in the case will be eligible to participate in the decisions of Committee III of the Executive Graduate Council either to decide whether the case should be heard or to decide the merits of the case.

Appeal of Grades in Graduate-Level Courses

Appeal of grades in graduate-level courses shall be made through the graduate student grade appeal procedures for the campus through which the grade was awarded. Students who believe their evaluation in a course has been prejudiced or capricious must first attempt to resolve the matter with the course instructor and then the department through which the course was offered. If the matter is not resolved, the student may file an appeal in writing to the campus Dean for Graduate Studies, who shall inform the student of the grade appeal procedures approved by the Graduate Faculty or by their duly elected representative Graduate Council for that campus, and who shall forward the appeal to the student-faculty committee or council which is designated to hear graduate-level course grade appeals on that campus. Since awarding grades in courses occurs at the individual campus level, the decision of the campus committee or council designated to hear the case on behalf of the campus Graduate Faculty shall be final and is not subject to further appeal.

The initiation of the appeal in writing by the student must be filed within six weeks following receipt of the grade from the Office of the Registrar.
Top: Vertebrate anatomy and herpetology are the specialties of James Fawcett, Ph.D., associate professor of biology and graduate student Maha Khachab. Bottom Left: Kris Berg, Ed.D., (right) professor of health, physical education and recreation, maintains a close working relationship with graduate students in UNO's exercise physiology laboratory. The modern facilities in the HPER Building give students a state-of-the-art approach to wellness. Bottom Right: The development of speech is the research area for Susan Nittrouer, Ph.D. She and graduate student Gina Meyer (left) work with children under a National Institutes for Health research grant in UNO's College of Education.
Seminar (801) candidate must pass a final written comprehensive examination.

Graduate Seminar (801) appropriate courses to be determined by the student and committee. The candidate for this degree must present 36 hours of the total 36 credit hours.

Independent Research in Biology (8020), and other hours of graduate work, including one credit

Master of Science

To enter a degree program with a major in biology, an applicant must normally present 24 semester hours of credit in the biological sciences including background in zoology, botany and genetics plus evidence of adequate preparation in the supporting sciences of inorganic and organic chemistry, physics and mathematics. Students with inadequate backgrounds may be admitted provisionally and will be required to make up deficiencies. The GRE (aptitude) is required and the scores must be submitted before a student will be admitted to the program.

In addition to the requirement for admission, transcripts, and GRE scores, the Biology Department also requires submission of three letters of recommendation and a personal statement of goals. Recommendation forms will be sent from the Biology Department upon receipt of the application for admission and transcripts.

Master of Arts

To complete the Master of Arts degree with a major in biology the candidate must present 30 credit hours of graduate course work to include six credit hours of Thesis (8990), one credit hour of Graduate Seminar (8010), and at least 23 credit hours of appropriate courses to be determined by the student and the faculty advisory committee. At least eight of these 23 credit hours will be taken in 8000-level (graduate only) courses. Graduate students are expected to attend the Graduate Seminar (8010) even when not registered for it. The candidate must pass a final oral examination and present his/her thesis results at an open meeting of the faculty and students.

Master of Science

A student may become a candidate for this degree upon the recommendation of his/her advisory committee. The candidate for this degree must present 36 hours of graduate work, including one credit hour of Graduate Seminar (8010), two to six credit hours in Independent Research in Biology (8020), and other appropriate courses to be determined by the student and his/her graduate advisory committee. At least 18 credit hours of the total 36 credit hours required for the degree will be taken at the 8000-level (graduate only) courses. Graduate students are expected to attend the Graduate Seminar (8010) even when not registered for it. The candidate must pass a final written comprehensive examination.

Master of Public Administration - Environmental Option

The Biology Department cooperates with the Department of Public Administration in offering this degree. The degree is administered through Public Administration and is described under that department.

Course Descriptions

3320/8325 Microtechnique (3) A course in the techniques of fixation, dehydrating, staining, cleaning and mounting biological material in the manufacture of microscope slides. Prereq: Two years of biological sciences.

3340/8345 Ecology (4) Study of interrelationships between organisms and their biotic and abiotic environment; includes population biology, community dynamics, biotic interactions and evolution. Prereq: BIOL 1450 and 1750.

3350/8355 Flora of the Great Plains (3) The classification, identification and recognition of common vascular plants, including weeds, ornamentals and indigenous plants, found in the Great Plains. Prereq: BIOL 1450-1750.

3360/8365 Plant Anatomy (3) A study of cells, tissues and organs of vascular plants with particular emphasis on internal structure of seed plants. Prereq: BIOL 1450-1750.

3370/8375 Fauna of the Great Plains (3) A survey of the common animal groups found in the Great Plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands. Prereq: BIOL 1750.

3370/8375 Histology (4) Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance. Prereq: BIOL 1750, and a course in vertebrate anatomy, or permission of instructor.

4100/8106 Biogeography (3) This course is intended as an introduction to biogeography, the study of the distribution of organisms in space and time. Prereq: BIOL 1750, GEOG/GEOL 3100 or BIOL 3100, graduate.

4120/8120 Ecosystem Management (3) Directed study in preservation, conservation and management of native and reestablished ecosystems and biota. One two-day field trip may be scheduled. Prereq: Graduate in biology or permission of instructor. Recommended: BIOL 3340/8345.

4130/8135 Molecular Genetics (4) Examination of current topics in molecular genetics including DNA replication, gene structure and regulation, and gene cloning methods and their application. Lecture, discussion and laboratory. Prereq: BIOL 2140 and 3020, or their equivalents.

4140/8146 Cellular Biology (4) This course is a comprehensive study of the structure and function of plant and animal cells. Prereq: BIOL 1450 and 1750, organic chemistry, or permission of instructor.

4180/8186 Limnology (4) A study of the physical, chemical and biotic relationships that serve to maintain and maintain plant and animal communities in a freshwater environment. Prereq: BIOL 1450, 1750, and organic chemistry.

4210/8210 Fire Ecology (3) Study of fire in ecosystems including characteristics of fire, effects on flora, fauna and the abiotic environment, and use in maintaining native ecosystems. Includes two one-day weekend field exercises. Prereq: BIOL 2340, graduate in biology or permission of instructor.

4220/8226 Population Biology (4) An examination of topics in population ecology and population genetics including selection on individuals and groups, mating systems, life history characteristics, growth and regulation of populations and population interactions. Outside research project required. Prereq: BIOL 2140 and 3340 or permission of instructor, junior-senior.

4230/8236 Organic Evolution (3) A study of organic evolution in terms of evidence which support the theory and the mechanisms involved in the process. Prereq: BIOL 2140. Lecture and discussion only.

4270/8276 Animal Behavior (3) Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolutionary and adaptive significance of behavior as a functional unit. Prereq: BIOL 1750 and PSYCH 1010 or permission of instructor. Lecture only. (Same as PSYCH 4270/8276)

4280/8286 Animal Behavior Laboratory (1) Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiences and independent studies will be conducted. Prereq: BIOL/PSYCH 4270/8276 or concurrent enrollment.
4310/3316 Microcomputers in Biology (2) A lecture/demonstration survey of microcomputer applications in biology and biological education. Prereq: Three hours of a college-level computer course or written permission of instructor. Graduate.

4320/3326 Microcomputers in Biology Laboratory (2) An individualized laboratory course in which the student will complete selected microcomputer projects. Prereq: BIOL 4310/3316 or concurrent enrollment or written permission of instructor. Graduate.

4340/3346 Ichthyology (4) A study of the biology of fishes, including their evolution, anatomy, physiology, ecology, distribution, classification and identification with emphasis on North American freshwater fishes. Prereq: BIOL 1750.

4350/3356 Lichenology (3) Taxonomy, morphology and ecology of lichenized fungi with laboratory emphasis on identification of the local species. Other topics for discussion will include symbiosis, air pollution and lichens, chemosystematics and modern herbarium techniques for lichens and other cryptogams. Prereq: BIOL 1450/1750 and permission of instructor, graduate in biology.

4370/3376 Physiology (3) A survey of the algae dealing with their ecology, morphology, physiology, taxonomy and evolution. Prereq: BIOL 1450/1750 or permission of instructor, graduate in biology.

1450/3456 Morphology of Non-Vascular Plants (4) Structural, reproductive, ecological and evolutionary features of the major non-vascular plant groups including prokaryotes, algae, fungi, lichens and Bryophytes. Prereq: BIOL 1450-1750, graduate.

4390/3396 Vascular Plant Morphology (3) A survey of living and fossil vascular plants with emphasis on their comparative anatomy and morphology and their evolution. Prereq: BIOL 1450-1750 or equivalent, graduate in biology.

4430/3436 Mycology (3) A study of the fungi, including their morphology, taxonomy, growth, development and reproduction. Prereq: BIOL 1450-1750, graduate.

4440/3446 Plant Physiology (4) A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism and mineral nutrition. Prereq: BIOL 1450/1750, organic chemistry, or permission of instructor.

4450/3456 Virology (4) This course will examine the morphology, genetics, pathogenesis and molecular biology of viruses. The course will emphasize the application of viral systems to molecular biology research. Current topics include transgenic animals, such as HIV and prions, will also be examined. Prereq: CHEM 2260 and 2274 or CHEM 2210 and 2214, BIOL 3020 and 2140. Recommended: Biochemistry.

4640/3646 Microbial Physiology (4) Examination of physiological diversity found among microorganisms with an emphasis on experimental procedures and practical applications. Lecture and laboratory. Prereq: BIOL 1450-1750, graduate.

4720/3726 Experimental Endocrinology (2) Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: A course in endocrinology, concurrent registration in BIOL 3726, or permission of instructor.

4730/3736 Endocrinology (3) A survey of endocrine physiology stressing the regulatory and integrative roles of hormones, the control of hormone secretion and mechanisms of hormone action. Prereq: Organic chemistry or permission of instructor.

4740/3746 Animal Physiology (4) A comprehensive study of animal function emphasizing mechanisms of regulation and control. Prereq: BIOL 1750, vertebrate anatomy, organic chemistry and physics, or permission of instructor.


4790/3796 Mammalogy (4) The biology of mammals, including their evolution, functional morphology, physiology, ecology, zoogeography, behavior, classification and identification with emphasis on North American groups. Field trips. Prereq: BIOL 4780 or 4950 or permission of instructor.

4840/3846 Herpetology (4) The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification with emphasis on North American groups. Prereq: BIOL 1750.

4850/3856 Developmental Biology (4) A study of the principles of development of multicellular organisms. Current concepts of interactions at the molecular, cellular and tissue levels will be included. Prereq: BIOL 1450, 1750, 2020 and junior standing or permission of instructor.

4880/3886 Invertebrate Zoology (4) A comprehensive study of the invertebrate animals. Prereq: BIOL 1750.

4910/3916 Protozoology (4) The biology of phylum Protozoa, including their morphology, physiology, reproduction, genetics and ecology with emphasis on free-living groups. Prereq: BIOL 1750.

4920/3926 Parasitology (4) Taxonomy, morphology, physiology, life history dissemination and control of the parasitic protozoans, helminths and arthropods. Prereq: BIOL 1750.

4940/3946 Entomology (4) The study of insects; their classification, morphology, physiology, behavior, life histories, ecology and evolution. Prereq: BIOL 1750.

4950/3956 Advanced Genetics (3) An in-depth consideration of topics in genetics, including the conceptual and molecular definition of a gene, cyrogens, mutation, population genetics, developmental genetics, gene regulation and the application of genetics to other area of biology. Prereq: BIOL 2140 and 3020.

4950/3956 Vertebrate Embryology and Anatomy (4) Development and phylogeny of vertebrate organ systems. Dissection of major vertebrate types, and study of developmental stages from fertilized egg to adult condition. Prereq: BIOL 1750.

4980/3986 Ornithology (4) An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification and identification with emphasis on North American groups. Prereq: BIOL 1750.

8010 Seminar in Biology (1) A study of current research in any of the divisions of biology. Graduate students will complete this course once for credit. Prereq: Graduate.

8020 Independent Research in Biology (1-3) Research work under supervision of a graduate faculty member. May be taken more than once for credit; up to 4 credits for M.A. degree candidates and up to 6 credits for M.S. degree candidates. Prereq: Graduate and written permission of graduate faculty supervisor.

8090 Advanced Topics in Biology (1-3) Lecture and/or laboratory courses for graduate students designed to provide exposure to biological specialties not offered in the regular curriculum. Prereq: Graduate and permission.

8070 Advanced Readings in Biology (1-3) An in-depth study of the literature in a limited segment of the biological sciences under the supervision of a graduate faculty member. May be taken more than once for credit up to a total of six credits. Prereq: Graduate and written permission of graduate faculty member.

8110 Biostatistics (4) A study of principles and techniques in animal and plant biostatistics. The course will focus on experimental investigation of the species problem, including molecular approaches. Lecture/discussion and laboratory. Prereq: Graduate in biology and permission of instructor.

8120 Communities and Ecosystems (3) Advanced study of populations, communities and ecosystems; may require overnight trips. Prereq: BIOL 3340/3345, permission of instructor, graduate in biology.

8200 Plant Ecology (4) Advanced study of plant communities and individual plant species including relationships with the environment and vegetative dynamics. Emphasis on methods of evaluation and analysis. May require overnight field trips. Prereq: BIOL 3340/3345, permission of instructor, graduate in biology. Recommended: BIOL 3550/3555. (Fall)

8250 Design and Analysis of Biological Research (3) This course examines the statistical aspects of the design of laboratory and field experiments in biology. Basic statistical methods are reviewed and advanced methods presented, including multivariate analysis. Statistical computer packages are used. Randomized, block, Latin-square and split-plot designs are introduced. Prereq: Stat 3000 or equivalent, permission of instructor and graduate.

8330 Advanced Topics in General Physiology (3) Studies in general physiology including such topics as photo-physiology, hormonal regulation of metabolic pathways, temperature-related phenomena, and cytophysiology. Lecture, laboratory, and written report. Prereq: Graduates in biology.

8330 Environmental Physiology (3) A detailed study of selected dynamic environmental factors and mechanisms of physiological adaptation by organisms of various taxa. Prereq: General physics, algebra, animal physiology, or permission of instructor. Graduate.

8900 Scanning Electron Microscopy (3) Theory and use of the scanning electron microscope with special emphasis on biological applications. Included will be all aspects of specimen preparation, microscope function, darkroom techniques and interpretation of micrographs. Laboratory will emphasize individual student projects. Prereq: Graduate and written permission of instructor.

8990 Thesis (1-6) An original and independent research project written under the supervision of a faculty thesis advisory committee.
BUSINESS ADMINISTRATION

PROFESSORS:
Abdullah, Ambrose, Benecke, Buehmann, Conway, Diamond, Forbes, Garsombke, Lee, Martin, Mathis, Nazem, Nielsen, Pol, Sindt, Stolen, Trussell, Turner, Zahn

ASSOCIATE PROFESSORS:
Baum, Corcoran, File, Hafer, V. Johnson, O'Hara, Ortman, Ottemann, Pietro, Sosin, Specht, Watanabe, Wohar

ASSISTANT PROFESSORS:
Armaitage, Lewis, Medewitz, Mitenko

Master of Business Administration Degree
The MBA is a professional graduate degree designed to provide an intense educational experience for students who desire to assume positions of increasing responsibility in business.

Courses in the program cover management, marketing and finance and include the use of accounting, computers, statistics and quantitative methods as tools for analysis of business activities. The student explores the societal, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business. The primary emphasis of the program is on decision-making and problem-solving.

Admission Standards
The minimum admission standards for students in the MBA program are:
Junior-Senior GPA x 200 + GMAT = 1070
The GMAT score must not be below 450 in computing the above total. There is no guarantee admission will be granted simply because the indicated points have been achieved.

Students are admitted on a provisional status until all foundation courses have been completed. GMAT scores must be received prior to the student's admission to the M.B.A. program.

Transfer of Graduate Credit
Students who have completed graduate courses at other approved (AACSB) graduate schools may request permission to transfer as many as nine semester hours of credit on a 36 hour program, provided the courses are pertinent to the student's graduate program.

Courses for which transfer is requested must not have been used to satisfy the requirements for any previously awarded degree. Grades in courses for transfer of credit must be equivalent to "B" or higher. No transfer of credit can be made until the student has been admitted to candidacy for the degree. All work for transfer of credit must have been taken within the six-year period allowed for the Master's degree. Applications for the transfer of credit are submitted by the student to the M.B.A. adviser who forwards the petition with a recommendation to the Dean of Graduate Studies for approval.

To transfer credit for BSAD 8800, a student must complete a comprehensive examination.

Degree Requirements
Foundation courses: A student must have completed basic courses in the following areas either as an undergraduate student or concurrent with the first MBA course:

Accounting BSAD 8110 or one year of Principles of Accounting at the undergraduate level (ACCT 2010 and 2020)
Economics BSAD 8180 or Macro- and Micro-economics at the undergraduate level (ECON 2010 and 2020)
*Statistics for Business BSAD 8120 or equivalent courses at the undergraduate level (ISQA 2130 and 3140)
*Production/ Operations Management and Business Calculus BSAD 8170 or equivalent courses at the undergraduate level (MATH 1930 and ISQA 3500)
Management and Marketing Principles BSAD 8130 or equivalent courses in each at the undergraduate level (MGMT 3490 and MKT 3310)

English Composition is a required foundation course for all foreign students admitted to the MBA program.

Courses successfully completed ("A", "B" or "C" grades) in the student's undergraduate program at a four-year institution are considered as sufficient preparation. Otherwise, the student must include the course deficiencies in the program of study. Students who consider themselves proficient through experience or self-study in any of these areas may complete a "Satisfaction by Exam" in lieu of coursework. Foundation courses including BSAD 8110, 8120, 8130, 8170 and 8180 may not be used on the 36 hour MBA plan of study.

Graduate Courses: the degree requires a minimum of 36 semester hours for completion.
Core Courses ........................................... 24 Electives ............................................. 12 36

A maximum of six hours of electives may be taken in an area outside the College of Business Administration, subject to advance approval by the Graduate Program Committee and the Director of Graduate Studies. The 12 hours of electives may include only three hours of dual-level (undergraduate/graduate) courses. A thesis or comprehensive examination is not required. Instead, the integrative course BSAD 8800 must be completed in the student's last nine hours of the degree program with a grade of "A" or "B." A student may elect to write a thesis in lieu of BSAD 8800.

Core Courses
BSAD 8010 Legal Environment of Management... 3
BSAD 8030 Business Information Systems......... 3
BSAD 8100 Managerial Economics .................. 3
BSAD 8200 Managerial Accounting ................. 3 (or an approved graduate-level accounting course
BSAD 8310 Human Behavior in Organization..... 3
BSAD 8400 Marketing Policies ...................... 3
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<td>Security Analysis</td>
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<td>BSAD 8520</td>
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<td>BSAD 8530</td>
<td>Banking and Financial Markets</td>
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<td>BSAD 8550</td>
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<td>BSAD 8600</td>
<td>Real Estate and Land Use Theory</td>
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<td>BSAD 8610</td>
<td>Current Problems in Real Estate</td>
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<td>BSAD 8710</td>
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<td>Systems Analysis and Design</td>
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<td>BSAD 8990</td>
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<td>ACCT 8016</td>
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<td>ACCT 8076</td>
<td>Accounting for Not-For-Profit Organizations*</td>
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<td>ACCT 8096</td>
<td>Advanced Auditing*</td>
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<td>ACCT 8210</td>
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<td>ACCT 8220</td>
<td>Federal Estate and Gift Taxation</td>
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<td>ACCT 8225</td>
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<td>ACCT 8240</td>
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<td>ACCT 8250</td>
<td>Seminar in Accounting*</td>
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<td>ACCT 8260</td>
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<td>ACCT 8900</td>
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<td>ACCT 8910</td>
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<td>ECON 8216</td>
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<td>ECON 8256</td>
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<td>ECON 8306</td>
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<td>ECON 8326</td>
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<td>ECON 8810</td>
<td>Seminar: Public Finance*</td>
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<td>ECON 8850</td>
<td>Economic Education*</td>
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<td>ECON 8860</td>
<td>Seminar in Labor Economics*</td>
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<td>ECON 8900</td>
<td>Seminar in Micro Theory*</td>
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<tr>
<td>ECON 8910</td>
<td>Managerial Economics (same as BSAD 8100)*</td>
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<td>ECON 8220</td>
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<td>ECON 8300</td>
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<td>ECON 8870</td>
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*Accounting course descriptions listed in the Professional Accounting section.

**Executive Master of Business Administration Degree**

The Executive MBA is designed for organization-sponsored, experienced, middle- and upper-level managers, professionals and individual business owners who aspire to even more responsible managerial assignments.

The curriculum has been established so that class members, as a group, will progress through a carefully structured sequence of courses over a two-year time period. Primary objectives of the program are to provide class members a broader perspective of many organizational issues, sharpen managerial skills and increase understanding of those political, social, international and economic forces that impact managerial effectiveness.

**Admissions Standards**

Admission to the Executive MBA program is based on the following criteria:
- Undergraduate degree and grade point average
- GMAT score
- Minimum of six years of full-time work experience
- Scope of managerial experience

**Degree Requirements**

A student must complete the following courses:

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<th>Required Courses</th>
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BSAD 8460 Management and Organization Theory ................................................. 3
BSAD 8470 Financial Analysis and Investments ................................................... 3
BSAD 8480 Economic Theory: Economics for Managerial Decisions ....................... 3
BSAD 8490 Management Information Systems ............. 3
BSAD 8560 Marketing Strategies ........................................................... 3
BSAD 8570 Administrative Policy and Strategy ............... 3
BSAD 8580 International Business and Economics ....... 3
BSAD 8590 Seminar in Business Administration ............ 3

Course Descriptions

Business Administration

4310/8316 Small Business Management (3) This course is designed to acquaint the student with the aggregation of activities involved in the planning, establishing, and maintaining of a small business enterprise. Prereq: Senior standing and permission of program chairperson or admission to the graduate college and MGNT 3490.

4420/8426 Business Demographics (3) This development of a demographic perspective to assist in understanding the business environment and business policy. How population change impacts upon consumer markets and all of the functions of a business enterprise. Prereq: Graduate

4560/8566 State and Local Finance (3) An inquiry into the financial, technical, principles, theories, rules and policies shaping, directing, influencing and governing the spending, taxing, debt and utilities of scarce resources for state and local governments. Prereq: ECON 2010 and 2020 or BSAD 8180.

4910/8916 Special Studies in Business (1-3) A series of special studies each designed to focus on current major topics and developments in a specific area of economics or business, scheduled as a workshop or seminar according to purpose. Prereq: Graduate in good standing or advanced undergraduate and as indicated for specific workshop or seminar.

6000 Quantitative Analysis (3) This course will include an overview of scientific methodology and quantitative tools used in problem solving and decision-making processes in business and other organizations. Prereq: Admission to the Graduate College and ISQA 2130, Principle of Business Statistics, or an equivalent course.

6080 Business Forecasting (3) This course is an introductory course in business forecasting. Prereq: BSAD 8000 or ECON 8036 or permission of instructor.

8100 Managerial Economics (3) The course will be offered to students of analysis drawn from consumer theory and the theory of the firm in order to improve the understanding of business behavior as it is constrained by the context of business decisions. Prereq: BSAD 8000 or ECON 8036 or permission of instructor.

8110 Survey of Accounting (3) This course is designed to introduce students to the fundamentals of accounting for organizations. Accounting information provides users both inside and outside an organization the basis for making decisions. Within an organization, typical decisions facilitated by accounting information are made in production, marketing, finance and personnel. Users outside the organizations who use accounting information include stockholders, regulatory agencies, courts and labor organizations. This course cannot be used in a plan of study for any graduate program at the graduate college and for the degree of Master of Business Administration. Prereq: Graduated and one year of college-level pre-calculus algebra. (Six hours of statistics, ISQA 2130 and 3140, may be substituted in this course.)

8140 Managerial Accounting (3) A general survey of the field of management and marketing. This course covers the basis for further study for both business administration and the graduate level. This course is intended for students who seek the Master of Business Administration degree, but have not completed the undergraduate equivalent courses in management and marketing. This course cannot be used in a plan of study for any graduate program at the graduate college and for the degree of Master of Business Administration with little or no formal background in economics. Prereq: Graduate.

8200 Managerial Accounting (3) A study of concepts, analysis and procedures of accounting utilizing internal financial and non-financial data which provide management with information for planning and controlling operations, for non-routine decision-making, policy-making and long-range planning; and for external reporting to stockholders, governments and interested parties. Designed for MBAs. Prereq: ACCT 2010 and 2020. Students with an undergraduate major in accounting should enroll in an approved accounting course.

8300 Organization Theory and Design (3) A study of theories and guidelines for organizing task-oriented effectiveness by matching an organization's structure to its environment, strategy, technology and size. Prereq: Graduate, completion of undergraduate management requirements.

8310 Human Behavior in Organizations (3) A human behavior course emphasizing the areas of individual behavior, interpersonal behavior, group behavior and the interplay of human and non-human factors. Prereq: Graduate, completion of undergraduate management requirements.

8420 Management Information Systems (3) A study of management information systems and their applications in business. Prereq: ECON 8210 or equivalent.

8430 Business Information Systems (3) A study of how information technology can be applied for competitive advantage. The course is designed to focus on the management of information technology to increase organizational effectiveness. This course is intended for all MBA students. Prereq: Graduate.
8350 Seminar In Management (3) A student participation course emphasizing current issues and problems in the areas of management theory and operation. Prereq: BSAD 8600 and 8510.

8400 Marketing Policies (3) A marketing management approach to the determination of policies employed in solving problems in marketing. Prereq: Graduate and MKT 3310 or BSAD 8130.

8450 Seminar in Marketing (3) Exploration, study and critical analysis of contemporary marketing problems, trends, methods and approaches for seminar discussion and written report. Prereq: BSAD 8400.

8500 Financial Management (3) This course is an introduction to corporate financial management. Lectures and case studies will be used to acquaint students with financial decision-making such as capital budgeting, working capital management, financial statement analysis, capital structure policy and others. This course is required for all students working toward the Master of Business Administration degree.

8510 Security Analysis (3) Study of the efficient market, fundamental and technical analysis approaches for the valuation of marketable securities. Methods of analysis are considered for the economy, industry groups and individual corporations. Prereq: BSAD 8500.

8520 Seminar In Investment Management (3) Modern Portfolio Theory of Investment Management and its application in formulation of policies for individuals and institutional investors. Qualitative and quantitative analysis of the risks and returns of portfolio management using efficient market, fundamental and technical analysis approaches. Prereq: BSAD 8510.


8590 Seminar In Finance (3) Selected topics from areas of business finance. Prereq: Bachelor's degree and BSAD 8500.

8600 Real Estate and Land Use Economics Theory (3) This course brings together the best of the technical literature dealing with the development of advanced tools of analysis and concepts of Real Estate and Land Use Economics. The tools are presented and developed which assist real estate analysts in identifying and evaluating the complex factors which determine both real estate productivity, value, investment and land-use patterns. Prereq: ECON 2100 and 2200 or BSAD 8160.

8610 Current Problems In Real Estate and Land Use Economics (3) A study of current issues in real estate markets affecting decision policies. This course will study aspects of decision policies in the private and public sectors. Analysis of economic trends, real estate development and use and re-use of real property to provide a viable environment for all citizens. Prereq: RELU 2410, 4460, 4410 and LAWS 3460 or equivalent experience.

8710 Structured Software Design (3) Concepts of software specification and design, with emphasis on current research and structured development methodologies. Techniques for analyzing and modeling distributed and concurrent systems. Integration of process design and software design through assigned cases and projects. Prereq: ISQA 3100 or permission of instructor.

8720 Systems Analysis and Design (3) Study of current analysis and methods currently used in structured systems analysis and design. Introduction to structured analysis. Development of systems design and software design through assignments and projects. Prereq: ISQA 3100 or permission of instructor.

8730 Decision Support Systems (3) Current applications and practices in decision support systems applied to a solution of a variety of business problems. This course includes concepts and principles of management information systems, information requirements for decision-making, administration of information systems, simulation modeling for decision support system application project. Prereq: ISQA 3100 or permission of instructor.

8740 Data Base Management (3) Study of data base management systems. Emphasis on data base modeling, data administration, strategic data planning and application development. Prereq: ISQA 3410 or permission of instructor.

8770 Seminar In Management Information Systems (3) Current issues, trends and problems in information processing are critically examined. This seminar focuses on such topics as information management data base management, software technology, hardware technology and fourth generation languages. Prereq: ISQA 3100 or permission of instructor.

8800 Policy, Planning and Strategy (3) A comprehensive study of business problems, prospects and opportunities at varying levels of organizational. The student is responsible for demonstrating understanding and development of the various data base concepts. Only an "A" or "B" is considered an acceptable grade. Prereq: Prior completion of all core courses. Taken within the last nine hours of, or semester of graduation from the MBA or Master of Professional Accounting Program.

8860 The Arts and the Executive (3) The course will provide the graduate student with an understanding of the organizational and cultural issues involved in an arts organization as the role of the arts in the business community. Prereq: Graduate and permission of instructor.

8900 Independent Research (3) Individual research in an academic area in business administration. Maximum of six hours. Prereq: Graduate and permission of instructor.

8910 Special Topics In Business (1-3; may be repeated up to 9) A series of special courses each designed to focus on current major topics and developments in a specific area of economics or business, scheduled as a workshop or seminar according to purpose. Prereq: Graduate in good standing and as indicated for specific workshop or seminar. (Same as ECON 8910)

8990 Thesis (1-8) A research project, under the supervision of a faculty adviser in the College of Business Administration, in which the student establishes his capacity to design, conduct and complete an independent, scholarly investigation of a high order of originality. The research topic and the completed project must be approved by the student's faculty thesis adviser and two other faculty members, one of whom must be from outside the program area. Prereq: Permission of graduate adviser.

Executive Master of Business Administration

8260 Accounting Theory and Practice (3) Only students who have been admitted to the Executive MBA program may take this course. The purpose of the course is to introduce students to the concepts of financial and managerial accounting. Financial accounting is used by organizations to report to stockholders, regulatory authorities and others on the assets and equities of the organization. Managerial accounting is designed to help organizations satisfy objectives of providing goods and services efficiently and effectively.

8270 Contemporary Economics for Business Management (3) Only students who have been admitted to the Executive MBA program may take this course. This course will familiarize students and professionals with the microeconomic and the macroeconomic principles relevant to: (a) individual and business firm decision-making; (b) the domestic and international environment in which economic decisions are made; (c) the evaluation of policies designed to solve economic problems.

8280 Human Resource Management (3) Only students who have been admitted to the Executive MBA program may take this course. The intent of this course is to familiarize graduate students with concepts and models related to human behavior in the organization. Emphasis is placed on the multiplicity of applications to a wide variety of areas within organizational behavior.

8290 Marketing Management (3) Only students who have been admitted to the Executive MBA program may take this course. As this is the initial course of marketing in the degree program, it provides the basic foundation for the marketing discipline as well as providing the basis for further exploration and study of the discipline of marketing. The foundation of principles, concepts and nomenclature of marketing are the primary structure of the course. It is intended to provide a comprehensive knowledge of marketing. Further, this course challenges the students to explore further the applications of the foundation knowledge of the course.

8360 Financial Management for Executives (3) Only students who have been admitted to the Executive MBA program may take this course. This course is an introduction to corporate financial management. Lectures and case studies will be used to acquaint the student with financial decision-making involving such topics as capital budgeting, working capital management, financial statement analysis, capital structure, policy, and others.

8370 Legal and Ethical Considerations In Business (3) Only students who have been admitted to the Executive MBA program may take this course. This course addresses the fundamental concepts of management and contracts and other legal issues as well as numerous applications will be explored. A wide variety of techniques and concepts related to manufacturing and service operations will also be studied.
BUSINESS ADMINISTRATION

8390 Contemporary Accounting Systems: Management Accounting (3) Only students who have been admitted to the Executive MBA program may take this course. The course is designed to give students an in-depth understanding of how accounting information is used by management decision-makers. The accounting information system generates information managers use for pricing, budgeting, performance appraisal, purchasing, production, capital acquisition, etc. The course focuses on both theoretical and practical dimensions of the topic.

8460 Management and Organization Theory (3) Only students who have been admitted to the Executive MBA program may take this course. A systematic analysis of the principles and concepts of organization and management theory including the basic process of management and the fundamentals of organization design. From a micro perspective, the course focuses on the planning, organizing, directing and controlling functions of management with emphasis on the classical, neoclassical, behavioral and systems schools of thought. From a macro perspective, the course focuses on the relationships between such factors as environment, goals, strategy, management process and organizational structure.

8470 Financial Analysis and Investments (3) Only students who have been admitted to the Executive MBA program may take this course. Investigation of the principles involved in building an investment portfolio of securities, and financial analysis of securities, and in learning practices of the securities markets.

8480 Economic Theory: Economics for Managerial Decisions (3) Only students who have been admitted to the Executive MBA program may take this course. This course will teach students analytical techniques based on the theory of the firm for application to business management decisions. Emphasis will be placed upon bridging the gap between economic theory and management practice. The student will learn to evaluate the impact on the firm's national and international market conditions and policies.

8490 Management Information Systems (3) Only students who have been admitted to the Executive MBA program may take this course. An introduction to management information systems including transaction processing, decision support systems and office automation.

8550 Marketing Strategies (3) This course provides students with a comprehensive knowledge of marketing strategies in both domestic and international markets.

8570 Administrative Policy and Strategy (3) Only students who have been admitted to the Executive MBA program may take this course. This course examines the executive decisions required of the chief operating officer of an organization. Emphasis is given to the contributions of several business disciplines of study, such as marketing, finance and management, to understanding both the internal operations of the organization and the influences of the external environment. This course is integrative and introduces both the theory and practice that enables that integrative process.

8580 International Business and Economics (3) The nature, behavior and economic environment of international business are surveyed in this course. As a multidisciplinary course, international opportunities are examined as they are influenced by international trade, monetary economics, finance and management.

8590 Seminar in Business Administration (3) Only students who have been admitted to the Executive MBA program may take this course. The course examines very specifically the opportunities and difficulties of a domestic U.S. organization as it attempts to expand and extend its sphere of operation into the international arena. This is both a theory course as it demands an understanding of the premises upon which such an extension would be based as well as a pragmatic course that addresses an actual business situation. There will be a strong emphasis upon the collection and assimilation of primary data and information for decision purposes.
Master of Science

This degree program is offered by the faculty of the University of Nebraska-Lincoln (UNL), Department of Civil Engineering, and is administered by the Graduate Faculty of UNL.

Graduate work in Civil Engineering is governed by the general requirements of the Graduate Faculty of UNL. Selection of the option and program are subject to approval of the student's adviser and the departmental Graduate Committee.

A student applying for admission should designate the primary area in which he/she wishes to study. Major work for the Master of Science degree may be selected from the areas of Environmental, Geotechnical, Structural, Transportation and Water Resources Engineering. A minor area may be designated from any one of the related Civil Engineering areas or from other related departments. Other supporting courses will be selected from advanced or graduate courses having some relation to the major group.

Doctor of Philosophy Degree

Studies leading to a Ph.D. degree in Engineering are conducted under the engineering doctoral program which is described in the UNL Graduate Bulletin.
COMMUNICATION

PROFESSORS:
Bauer, Cowdin, Francke, Johansen, Sherer, Wanzenried

ASSOCIATE PROFESSORS:
Carlson, Prisbell, Rose

ASSISTANT PROFESSORS:
Fus, Lipschultz, Bingham

Master of Arts

Degree Requirements

The Communication Master's Program has admission requirements and procedures in addition to those applicable to Graduate Studies as a whole, and prospective students are strongly encouraged to contact the Department regarding these admission requirements and procedures.

Unconditional Admission. May be granted to a student whose record includes at least the following:

1. Certification of a Bachelor's degree from a regionally accredited institution;

2. Documentation (official transcript) of having earned at least (a) a 3.25 (re 4.0) grade point average in the undergraduate work in his/her proposed graduate major and minor, (b) either a 3.0 overall undergraduate average or a 3.25 average in the last half of the undergraduate credit hours; and

3. Inclusion of at least 15 undergraduate semester hours of appropriate courses in communication arts and sciences including sufficient advanced (upper division) preparation in the area of graduate concentration.

Provisional Admission. May be granted for reasons of experience, maturity or other circumstances to a student who has less than the grade point averages stipulated above - but in no case less than the provisional admission standards of the Graduate College, UNO. Applicants who have more than six semester hours of undergraduate deficiencies will be advised to remove them before applying for any type of admission. If granted provisional admission, the student must complete a graduate level seminar in communication during the first 12 hours of course work with a grade of "B" or higher.

Before deciding whether or not to recommend provisional admission, the Department's graduate faculty may require any one or any combination of the following:

1. Completion of prescribed course(s) (not for graduate credit) with a grade of "B" or higher;

2. Three written or documented-oral recommendations from persons who are in a position to evaluate the applicant's potential for graduate studies; or

3. Passing such test(s) as these faculty members deem necessary in order to determine whether the applicant is adequately prepared for graduate study.

All students who major in Communication are required to complete the 12 semester hours of core courses prescribed by the Graduate Committee. These core courses provide a basic, intensive and broad coverage of communication as a field of advanced study, including foundations of both mass and transactional communication in conjunction with research and theory. The core courses are Communication 8010, 8470 or 8500, 8570 and an elective theory or research seminar offered to graduate students only and approved by the graduate advisor.

The student's plan of study must be approved by the student's committee and may include provisions for a minor or area studies. Every plan of study must be designed to meet the requirements of either the thesis option or the non-thesis option.

Thesis option

Successful completion of 24 semester hours of coursework, plus a thesis (six credit hours) based on a proposal approved by the student's committee. No more than nine hours from outside the department may be counted toward requirements for the degree. The completed thesis is defended orally before the committee. The student also takes a written comprehensive examination covering communication research, communication theory and the student's specific area of interest.

Non-thesis option

Successful completion of 36 semester hours of coursework, at least 18 hours of which must be in courses open only to graduate students. No more than 12 hours from outside the department may be counted toward requirements for the degree. In lieu of a thesis, an independent research or creative project, based on a proposal approved by the student's committee, may be formulated in writing, video or film; plus the student takes a written comprehensive examination covering communication research, communication theory and the student's specific area of interest.

Course Descriptions

4010/8016 History of Mass Communication (3) The American mass media from 17th century origins to present, with emphasis on mass communication aspects of literary, intellectual, social and political history, and their relationships to current media issues. Prereq: Graduate and major/minor in Communication or permission of instructor.

4110/6116 Rhetorical Theory and Criticism (3) Rhetorical theory and criticism, emphasizing ways of evaluating oral communication. Prereq: Graduate, six hours of speech communication.

4140/6146 Communication and Human Relationships (3) This course applies theories of interpersonal processes and communication principles to the study of relationships. Discussion focuses on the communication in different types of relationships and relational stages, e.g., strangers, acquaintances, friendship and intimate. Prereq: Graduate and major/minor in Communication or permission.

4170/6176 Organizational Communication (3) Exposure to various theoretical approaches and methods for understanding communication processes in organizational settings. Application of these approaches' methods to the analysis and resolution of problematic situations in organizations. Prereq: Undergraduate major in Communication or permission.
4220/8226 Literary Journalism (3) Survey of the journalistic works of prominent American writers through readings, lectures, discussions, plus creative writing assignments.

4230/8236 Public Relations (3) The course is designed to enable the student to use theoretical communication models to describe and explain relationships between organizations and their internal and external publics and to apply models and research techniques to the public relations planning process (problem definition, planning, implementation and evaluation) in a proposal writing format.

Case Studies (3) The course is designed to enable the student: 1) to integrate issue-management and decision-making theoretical models with the communication theory and research techniques presented in JOUR 4230/8236 and 2) to apply professional judgement to the public relations problem-solving process through the development of structured analysis of historical cases. Prereq: JOUR 4230 or permission.

4310/8316 Political Broadcasting (3) A study of the evolving role of the electronic media in shaping political activities in our contemporary democratic society. Prereq: Three hours of journalism or broadcasting or political science or permission of instructor.

4340/8346 Broadcasting History and Regulation (3) A study of responsibilities and obligations of broadcasters as defined and interpreted through the history of regulation and deregulation policy. Licensing, spectrum allocation, programming and advertising regulation are studied.

4350/8356 Issues in Broadcasting (3) A study of current economic, legal and social issues facing the American system of broadcasting.

4370/8376 Communication Workshop (3) A workshop to explore communication theory and processes and to develop skills in their application.

4380/8386 Film Theory and Criticism (3) Study of major trends in film criticism and theory in Europe and America, with concentrated analysis of selected films. Prereq: BRCT 2310 or DART 1050 or permission of instructor.

4400/8406 Mass Media Ethics (3) The study of mass media as social institutions, particularly in their interaction with government and the public, with emphasis on ethical considerations.

4410/8416 Communications Law (3) A discussion of laws, court decisions, constitutional issues and regulations that affect the mass media, with emphasis on libel, privacy, confidentiality of reporters' sources, prior restraint, obscenity regulation, free press/fair trial, commercial speech, broadcast regulation and intellectual property.

4420/8426 Theories of the First Amendment: Speech and Press (3) An examination of freedom of communication in the United States with particular attention to freedom of the mass media and the many attempts at censorship. The course examines the philosophical and legal aspects of freedom of speech and press and the theories held by legal scholars. Prereq: JOUR 4140, 2.0 GPA, ENGL 1160.

4500/8506 Mass Communication and Public Opinion (3) A study of the philosophy, process and effects of mass communication in the United States, with an examination of the relationship between the mass media and public opinion, and the nature, function and measurement of public opinion.

4510/8516 Persuasion (3) Basic principles and psychological processes underlying persuasive communication; a review of various sources, message, channel and receiver variables and their influence on communication effectiveness. Prereq: SPCH 1010 or 1110 and three hours of psychology or sociology, or permission of instructor.

4520/8526 Psycholinguistics (3) 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 sound production. Prereq: Permission. (Same as PSYCH 4520/8526)

4530/8536 Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of cultural, subcultural, ethnic and racial misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural, subcultural, ethnic and racial situations. Prereq: Admission to Graduate College.

4540/8546 Contemporary Systems of Communication (3) An adaptation of General Systems Theory concepts to the study of human communication processes with emphasis on systems analysis of contemporary interpersonal communication perspectives. Prereq: Graduate and major in Communication, or permission.

4550/8556 Non-verbal Communication (3) A study of non-verbal communication in face-to-face, small group, speaker-audience and mass media settings. Reading, research and illustrations of non-verbal encoding and decoding.

4620/8626 Directing Forensics (3) 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. Prereq: SPCH 1100 or permission.

4900/4916-8906/8916 Seminar in Mass Communication (3) A seminar in mass communication emphasizing historical and theoretical perspectives in terms of the mass media, historical cases. Prereq: Graduate and majoring in Communication or permission of instructor.

8110 Seminar in Mass Public Address (3) Study in historical development of the Speech Communication discipline. It will also address issues involved in conceptualizing and doing research on Mass Communication. Prereq: Graduate and permission of instructor.

8300 Topics in Speech Communication (3) A variable content course dealing with speech communication. Prereq: Graduate and majoring in Communication or permission of instructor.

8470 Foundations Seminar: Speech Communication (3) This seminar was designed for students preparing to take the major, minor or advanced seminars in Communication. The course will expose students to the historical development of the Speech Communication discipline. It will also address issues involved in conceptualizing and doing research in Speech Communication. Prereq: Graduate and permission of instructor.

8500 Seminar in Communication Theory (3) This course has a twofold purpose: (1) to expose students to different perspectives on building and criticizing theory e.g., the classical versus the interpretive/naturalistic perspectives. (2) To apply perspectives to the analysis and critique of a range of influential theoretical approaches employed in the Communication discipline e.g., systems theory, semiotics, message reception/processing theories). Prereq: Graduate and majoring in Communication, or permission of instructor.

8570 Foundations Seminar: Mass Communication (3) This seminar was designed for students preparing to take the major, minor or advanced seminars in Communication. The mass communication system in the United States will be examined in terms of its basic philosophical and legal assumptions and the current political, cultural, sociological and psychological theories relating to the process and effects of mass communication. Prereq: Graduate and majoring in Communication or permission of instructor.

8690 Independent Research or Creative Projects (1-6) Non-thesis projects for majors in Communication supplementing advanced graduate courses. Prereq: Admission to candidacy (or application pending), written proposal of each project approved by the student's committee.

8690 Thesis (1-4 each) Independent research project written under the supervision of an adviser.

9400 Seminar in Small Group Communication (3) Research and theory in the process of small group communication and leadership, research procedures, methods for developing skills in small group communication. Prereq: Communication 8010 or equivalent or basic statistics, or permission. (Same as SOC 9400)
COMPUTER SCIENCE

PROFESSORS:
Wileman

ASSOCIATE PROFESSORS:
Spencer, Zhu

ASSISTANT PROFESSOR:
Ali, Chen, El-Rewini, Farhat, Ravichandran, Saiedian

Master of Science
To obtain the Master of Science degree, the student must:

1. Earn a total of 36 acceptable credits, at least 24 of which must be in Computer Science.
2. Choose Computer Science courses with a number of 8000 or above and ending in the digit zero or six. At least 18 of these credit hours must be courses with a number ending in the digit zero, with at most six of these 18 hours from 8970, Independent Study.
3. Maintain a "B" average in all coursework with no grade lower than a "C" or "C+".
4. Up to 12 hours of graduate work may be taken in other areas related to Computer Science, such as Mathematics or Business, with the permission of the Graduate Program Committee. Such work may not count toward the Master's degree if the student takes the course at the 8—6 level.
5. Pass a written comprehensive examination. The exam is a written exam given twice a year on the second Saturday of February and September.

Master of Arts
To obtain the Master of Arts degree in Computer Science the student must:

1. Earn a total of 30 acceptable credits.
2. Complete a thesis of six semester hours, which may be applied towards the 30 hours total.
3. Choose Computer Science courses with a number of 8000 or above and ending in the digit zero or six. At least 12 of these credit hours must be courses with a number ending in the digit zero, excluding CSCI 8970 and 8990.
4. Up to 12 hours of graduate work may be taken in other areas related to Computer Science, such as Mathematics or Business, with the permission of the Graduate Program Committee. Such work may not count toward the 18 hours described in "2." above.
5. Pass a comprehensive examination that includes a formal thesis defense.

Admission Requirements
Admission to a degree program in Computer Science is based upon evidence of ability to successfully complete the requirements of the program.

1. For unconditional admission in Computer Science, an applicant should have completed a Bachelor's degree with an overall average of 3.0 or better, and have completed coursework in Computer Science including the equivalent of the following courses:

   - CSCI 1610 Introduction to Computer Science I
   - CSCI 1620 Introduction to Computer Science II
   - CSCI 2510 Assembly Language Programming
   - CSCI 2620 Computer Organization
   - MATH 2030 Discrete Mathematics
   - CSCI 3320 Data Structures
   - CSCI 4220/8226 Programming Languages
   - CSCI 4350/8356 Computer Architecture
   - CSCI 4500/8506 Operating Systems

2. Students who satisfy the admission requirements specified in (1) except the requirement of the last three courses will be eligible for admission in a provisional or unclassified status. They will be granted unconditional admission upon the completion of the course work of the three courses with a grade of B or better in each course. No more than two of these three dual-level courses may count towards the Master's degree if the student takes the course at the 8—6 level.

3. Students who satisfy the admission requirements specified in (1) except the GPA requirement may be granted provisional admission to the graduate program. They will be granted unconditional admission upon the completion of four graduate courses with a grade of B or better in each course.

Additional Degree Requirements
in Computer Science
All graduate courses in Computer Science are divided into one of the eight categories or tracks listed below. One or more core courses (designated by an *) are specified for each track. To obtain a Master's Degree in Computer Science the student must:

1. Take at least one core course from at least five of the eight tracks.
2. Take at least three courses (nine credit hours) in any one of the eight tracks.

Courses labeled with a zero do not count towards satisfying track requirements. Independent Study (CSCI 8970) may be used for up to three credit hours of this requirement.

Courses taken at the undergraduate level may be used to satisfy any of the two track requirements but may not count toward a Master's degree.

Track 1 — Algorithms:
0. 8105 Applied Combinatorics
0. 8325 Data Structures
1. 8156 Graph Theory and Applications
2. 8160 Algorithmic Graph Theory
3. 8446 Introduction to Parallel Computing
4. 8670 Algorithmic Combinatorics
5. 8710 Design and Analysis of Algorithms
6. 8720 Advanced Topics in Parallel Computing
at least one semester before being eligible for a verbal skills in English.

Financial Support

The Mathematics and Computer Science Department annually awards ten graduate assistantships. The Mathematics and Computer Science Department annually awards ten graduate assistantships. Fall deadline for application is March 1, and for spring it is October 1. These positions pay an annual stipend of approximately $6800 plus waiver of tuition. The Mathematics assistantships require 20 hours per week work in the Mathematics laboratory during the fall and spring semesters. The Computer Science assistantships require 20 hours per week of teaching and/or research work under the supervision of a Computer Science faculty member.

International students must be in residence at UNO for at least one semester before being eligible for a teaching assistantship. This is to ensure satisfactory verbal skills in English.

**Course Descriptions**

**Computer Science**

- **3100/8105 Applied Combinatorics** (3) Basic Counting Methods, generating functions, recurrence relations, principle of inclusion-exclusion, Polya's Theorem. Elements of graph theory, trees and searching, network algorithms. Prereq: MATH 2030. (Same as MATH 3100/8105)
- **3300/8305 Numerical Methods** (3) Solving equations and systems of equations, interpolation, numerical differentiation and integration, numerical solutions to ordinary differential equations, numerical calculations of eigenvalues and eigenvectors, analysis of algorithms and errors, computational efficiency. Prereq: MATH 1800, MATH 2050. Recommended: MATH 3300. (Same as MATH 3300/8305)
- **3320/8325 Data Structures** (3) Methods of representing arrays, stacks, queues, lists, trees, graphs and files. Searching and sorting, Storage management. Prereq: CSCI 2000, MATH 2030 and CSCI 1620 or 1920.
- **4150/4155 Graph Theory and Applications** (3) Introduction to graph theory. Representations of graphs and graph isomorphism. Trees as a special case of graphs. Connectivity, covering, matching and coloring in graphs. Directed graphs and planar graphs. Applications of graph theory in several fields such as network, social sciences, VLSI, chemistry and parallel processing. Prereq: MATH 2630 or permission of instructor. (Same as MATH 4150/8155)

**Track 2 — Automata and Formal Languages:**

0. 8226 Programming Languages
1. 8666 Automata, Computability and Formal Languages
2. 8706 Compiler Construction
3. 8680 Advanced Automata and Formal Languages

**Track 3 — Operating Systems:**

0. 8506 Operating Systems
1. 8516 Advanced Topics in Operating Systems
2. 8520 Advanced Operating Systems Theory
3. 8556 Communications Networks
4. 8580 Advanced Communication Networks

**Track 4 — Computer Architecture:**

0. 8356 Computer Architecture
1. 8626 Computer Graphics
2. 8750 Advanced Computer Architecture
3. 8760 Introduction to VLSI Design
4. 8770 Fault Tolerant Systems

**Track 5 — Artificial Intelligence:**

1. 8456 Introduction to Artificial Intelligence
2. 8460 Expert Systems
3. 8470 Advanced Topics in Artificial Intelligence
4. 8476 Pattern Recognition

**Track 6 — Software Engineering:**

1. 8836 Introduction to Software Engineering
2. 8840 Software Engineering II
3. 8880 Advanced Topics in Software Engineering

**Track 7 — Data Base:**

1. 8856 Introduction to Data Base Management Systems
2. 8860 Data Base Management Systems II
3. 8870 Advanced Topics in Data Base Management Systems

**Track 8 — Numerical Methods:**

0. 8305 Numerical Methods
1. 8306 Linear Programming
2. 8316 Discrete Optimization
3. 8766 Stochastic Modelling
4. 8810 Advanced Numerical Methods I
5. 8820 Advanced Numerical Methods II
6. 8910 Advanced Topics in Optimization

**International Students**

International students must be in residence at UNO for at least one semester before being eligible for a teaching assistantship. This is to ensure satisfactory verbal skills in English.
4620/6626 Computer Graphics (3) An introduction to the acquisition, manipulation and display of graphical information using digital techniques. Topics include discussion of the various hardware devices used for input and output, the classical algorithms and data structures used in manipulation of graphical objects, the user interface to the graphics system, and applications. Prereq: MATH 2320, CSCI 4660/6666. 

4760/8766 Topics in Modeling (3) Formulation and analysis of various models involving Markov chains, Markov processes (including birth and death processes), queues, cellular automata, difference and differential equations, chaotic systems and fractal geometries. Prereq: MATH 3350/6355 and 3740/6745. (Same as MATH 4760/8766) 

4830/8836 Introduction to Software Engineering (3) Basic concepts and major issues of software engineering, current tools and techniques providing a basis for analyzing, designing, developing, maintaining and evaluating the system. Technical, administrative and operating issues. Privacy, security and legal issues. Prereq: CSCI 3320/6325.

4850/8856 Data Base Management Systems (3) Basic concepts of data base management systems (DBMSs). The relational, hierarchical and network models and DBMSs which use them. Introduction to data base design. Prereq: CSCI 3320/6325. 

4860 Advanced Graph Theory (3) Review of the basic concepts of graph theory. Introduction to perfect graphs and their characterization. Main classes of perfect graphs and their properties. Algorithms for minimal problems of perfect graphs. Applications of perfect graphs in several fields such as scheduling, VLSI and communication networks. Prereq: CSCI 3320/6325 and MATH 4100/6101 or permission of instructor. (Same as MATH 4860) 

4860 Expert Systems (3) A study of the theoretical basis and practical design of expert systems. Knowledge engineering, Foundations in logic programming, the architecture of expert systems, languages (Prolog, LISP) for expert systems, expert system shells, knowledge acquisition, current issues. Prereq: CSCI 4450/6456 or equivalent. 

4870 Advanced Topics in Artificial Intelligence (3) An in-depth study of one or more topics selected from: search algorithms, knowledge representation, knowledge programming, parallel processing in Artificial Intelligence, natural language processing, image processing, current and future directions, etc. May be repeated with different topics, with permission of adviser. Prereq: CSCI 4450/6456 or equivalent. 

4850 Advanced Operating System Theory (3) An advanced study of modern operating systems. Intended for graduate students who have mastered the fundamental material in an undergraduate course. Emphasis on advanced theoretical material on topics introduced in undergraduate courses, and material not generally covered in undergraduate courses. Advanced material on process synchronization, virtual memory, and new material on parallel processing, security, distributed systems, deadlock control, object-oriented programming, and modeling and analysis. Prereq: CSCI 4850/8856. Recommended: CSCI 4510/8516. 

5540 Advanced Data Structures (3) A theoretical study of the design and analysis of data structures and efficient algorithms for manipulating them. Emphasis is placed on developing the fundamental principles underlying efficient algorithms and their analysis. Prereq: CSCI 3320/6320 or equivalent. 

5550 Advanced Communication Networks (3) Advanced study of computer networks, analysis of communication needs, special problems encountered in different types of networks, efficiency and traffic analysis and emerging hardware/software technologies. Detailed "hands-on" study of the TCP/IP networking protocols. Prereq: CSCI 4550/6556 or equivalent. 

5870 Algorithmic Combinatorics (3) Classical combinatorial analysis graph theory, trees, network flow, matching theory, extremal problems, block designs. Prereq: MATH/CSCI 3100/6105. (Same as MATH 5870) 

5880 Advanced Automata and Formal Languages (3) A continuation of MATH/CSCI 4660/6666. The course will be an introduction to Computational Complexity. Topics that will be covered include space and time complexity of Turing Machines, deterministic versus non-deterministic machines, NP-Complete problems, alternating Turing machines, and concepts of reducibility. MATH/CSCI 4660/6666.

5870 Design and Analysis of Algorithms (3) The study of algorithms important in computer programming. Principles and underlying concepts of algorithm design. Fundamental techniques of algorithm analysis, types of algorithms. Related topics such as algorithms and computer architecture. Prereq: CSCI 3320/6325 or equivalent. (Same as MATH 8710) 

8720 Advanced Topics in Parallel Computing (3) This course offers advanced study of parallel computing at the graduate level. It covers several parallel programming paradigms such as: shared-memory programming, distributed-memory programming, object oriented programming, data parallel programming, functional dataflow programming. The course also covers other advanced topics such as: scheduling parallel programs, parallel troopers, parallelizing sequential programs, parallel programming support environments, and design and analysis of parallel algorithms. The course gives the students the opportunity to re-think programming from an entirely fresh perspective. Prereq: CSCI 4500/8506 or equivalent. 

8750 Advanced Computer Architecture (3) Various parallel architectures, models of parallel computing, processor arrays, multiprocessor systems, pipelines and vector processors, dataflow computers and systolic array structures. Prereq: CSCI 4550, 4560 and graduate. 

8760 Introduction to VLSI Design (3) Introduction to the principle concepts of Integrated circuit layout. Presentation of the hardware foundations, algorithmic mathematical and graph theoretical foundations of circuit layout, Partitioning problems in integrated circuits. Placement and floorplanning phase in layout. Routing algorithms and compilation techniques. Applications of graph theory in several steps of the design process of VLSI circuits. Prereq: CSCI 4320/6325 and CSCI 4500/8506 or permission of instructor. 

8810 Advanced Numerical Methods I (3) Error Propagation, solutions of linear equations by various schemes. Matrix norms and conditioning, computation of eigenvalues and eigenvectors. Additional topics such as non-linear systems, least square problems, etc. Prereq: MATH/CSCI 3350/6355. 

8820 Advanced Numerical Methods II (3) Interpolation and approximation, power series and theorems, iterative factoring of polynomials, solution of non-linear equations, solutions of ordinary and partial differential equations, and gradient vector techniques. Prereq: MATH/CSCI 8140 and MATH 1970. (Same as MATH 8820) 

8880 Data Base Management Systems II (3) A continuation of the study of Data Base Management Systems. Extended discussion of logical data base design, normalization theory, query optimization, concurrent issues. Advanced topics including distributed data bases, deductive data bases, data base machine, and others. Prereq: CSCI 4550/8556 or equivalent. 

8870 Advanced Topics in Data Base Management Systems (3) An in-depth study of one or more topics in the field of Data Base Management Systems, such as logical and/or physical data base design, query optimization, distributed data bases, intelligent knowledge-based systems, emerging technologies and applications. May be repeated with different topics with permission of adviser. Prereq: CSCI 4850/8856 or equivalent. 

8890 Advanced Topics in Software Engineering (3) An in-depth study of one or more topics in the field of software engineering such as human factors in software engineering, software specifications and modeling, reuse and design recovery, software valuations, software management, emerging technology and applications. Prereq: CSCI 4830/8836.

8810 Advanced Topics in Optimization (3) Topics selected from dynamic programming, multi-objective optimization, optimization in vector spaces, optimal management in bioeconomics, and optimal control. May be repeated for credit with the permission of graduate adviser and Instructor. Prereq: MATH/CSCI 4300/6306 or 4510/6516 and MATH 3200/6205 or permission of Instructor. (Same as MATH 8810) 

8920 Advanced Topics in Computer Science (3) An in-depth study, at the graduate level, of one or more topics that are not treated in other courses. May be repeated with different topics with permission of adviser. Prereq: Permission of Instructor will vary with offering. 

8970 Independent Studies (3) Under this number a graduate student may pursue studies in an area that is not normally available in a formal course. The topics to be studied will be in a graduate area of computer science to be determined by the Instructor. Prereq: Permission of Instructor and graduate classification. 

8990 Graduate Seminar (1-3) A graduate seminar in computer science. 

8990 Thesis (1-6) A research project, designed and executed under the supervision of the chair and approval by members of the graduate student's thesis advisory committee. In this project the student will develop and defend a number of skills including the ability to design, conduct, analyze and report the results in writing and statistically. Original, independent scientific investigation. Prereq: Graduate in computer science.
COUNSELING

PROFESSORS:
Butler, Oleson, Pilkingon

ASSOCIATE PROFESSORS:
Bertinetti, Davis, Harrington

Admission and Retention
The Counseling Program has admission requirements and procedures in addition to those applicable to Graduate Studies as a whole, and prospective students are strongly encouraged to contact the Department regarding these admission requirements and procedures. One such exception from the general Graduate Studies procedures are different admission deadlines for Counseling.

Students are admitted to the programs in Counseling twice each year. Applications should be submitted to the Office of Admissions by October 31, 1993 for admission to the spring semester, and by March 30, 1994 for summer or fall semesters of 1994. Students should also notify the Counseling Department by the above dates that they have applied for admission.

Admission to a degree program in Counseling involves tests, references and interviews which require several weeks to complete. Students are admitted and permitted to continue programs in Counseling on the basis of their potential for successful training and professional practice.

Major points where students are evaluated with respect to their suitability for continuation in the program are:
1. when they are admitted to candidacy; and
2. prior to taking the Counseling Practicum or Internship courses.

Specific course and grade requirements for admission to candidacy and for permission to take Practicum courses are available in the Counseling Department office.

Programs
Students obtain a Master's degree in Counseling with an area of specialization. Current specialty areas include Elementary School Counseling, Secondary School Counseling (both of which require current teaching certificates for endorsement as a counselor in Nebraska or Iowa), Agency Counseling, College Student Personnel Services, and Counseling in Gerontology.

Successful completion of Counseling Practicum or Internship is a requirement for graduation. Graduates are recommended only for positions consistent with the program they completed.

Undergraduate students interested in non-school counseling (Agency, Gerontology and College Student Personnel Work) are advised to examine the recommended pre-counseling program described in the Arts and Sciences section of the Undergraduate Catalog.

Master of Arts
Programs for the Master of Arts degree will be determined upon request. The M.A. degree includes a thesis in lieu of a written comprehensive examination. Students who anticipate work on a doctorate are particularly encouraged to consider the M.A. degree.

Master of Science
Programs of study for the Master of Science degree are determined in relation to the student's previous course work, experience and anticipated work setting. Most programs, however, will closely approximate the outlines given below. At least one research course is required of all students. A Master's degree in Counseling may not be completed in less than two years of study.

Specialization in Agency Counseling

Foundation Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>TED 8010 Introduction to Research</td>
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<tr>
<td>Psychology course work</td>
<td>3</td>
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Counseling Courses

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>COUN 8020 Introduction to Counseling</td>
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<td>COUN 8030 Counseling Practices</td>
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</tr>
<tr>
<td>COUN 8040 Professional and Ethical Issues</td>
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<tr>
<td>COUN 8200 Counseling Theories</td>
<td>3</td>
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<tr>
<td>COUN 8226 Career Development and Lifestyle</td>
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<tr>
<td>COUN 8230 Appraisal Techniques</td>
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<tr>
<td>COUN 8270 Group Techniques in Guidance</td>
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<tr>
<td>COUN 8370 Group Theory and Practice</td>
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<td>COUN 8300 Counseling Techniques I</td>
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<td>COUN 8310 Counseling Techniques II</td>
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<td>COUN 8400 Counseling Techniques III</td>
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Agency Counseling Courses

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<td>COUN 8290 Community Involvement for Urban Counselors</td>
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<tr>
<td>COUN 8500 Counseling and Consulting for Special Concerns</td>
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<tr>
<td>COUN 8520 Consulting with Multicultural and Diverse Populations</td>
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<tr>
<td>COUN 8610 Introduction to Marital and Family Therapy</td>
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<tr>
<td>Practicum/Internship Experiences</td>
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Minimum Total Hours: 46

Master of Science
Specialization in Secondary Counseling

Foundation Course

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Counseling Courses

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<td>COUN 8520 Consulting with Multicultural and Diverse Populations</td>
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<td>COUN 8600 Parent/Staff Development and Consultation</td>
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## Foundation Course

Personnel Counseling Courses

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Minimum Total Hours: 49-53

## Master of Science

Specialization in Elementary Counseling

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Counseling Courses

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<td>COUN 8600</td>
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Minimum Total Hours: 48

## Master of Science

Specialization in College Student Personnel Work

<table>
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<th>Foundation Course</th>
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Counseling Courses

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Minimum Total Hours: 49-53

## Selection of Colleges

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<th>Course</th>
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<td>COUN 8450</td>
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</table>

Minimum Total Hours: 45-51

### Selected Cognate Courses

- These courses are selected in consultation with the student's particular background and interests; i.e., admissions and registration, career counseling, placement and financial aid, student services (counseling, testing, students with special needs, etc.), housing and student union activities.

Minimum Total Hours: 9-15

## Master of Science

Counseling with Specialization in Gerontology

The Counseling Degree Program with specialization in Gerontology is a cooperative effort of the Counseling Department and the Gerontology Program. The UNO Gerontology Program offers courses leading to a Certificate in Gerontology. Students wishing to earn a degree in Counseling with Specialization in Gerontology must be admitted to the Gerontology Certificate Program as well as the Counseling Program. Certificates of Specialization in Gerontology are issued by the University to those completing the Certificate Program upon the recommendation of the Gerontology Program.

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<th>Course</th>
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<td>TED 8010</td>
<td>3</td>
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Counseling Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COUN 8020</td>
<td>1</td>
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<tr>
<td>COUN 8030</td>
<td>3</td>
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<tr>
<td>COUN 8040</td>
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<td>COUN 8200</td>
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<td>COUN 8220</td>
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<tr>
<td>COUN 8230</td>
<td>3</td>
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<tr>
<td>COUN 8370</td>
<td>2</td>
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<tr>
<td>COUN 8450</td>
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Minimum Total Hours: 41-47

## Additional Elementary Counseling Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>COUN 8215</td>
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<tr>
<td>COUN 8260</td>
<td>3</td>
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<tr>
<td>COUN 8270</td>
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<tr>
<td>COUN 8300</td>
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<td>COUN 8310</td>
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<tr>
<td>COUN 8400</td>
<td>1</td>
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<tr>
<td>COUN 8520</td>
<td>3</td>
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</tbody>
</table>

Minimum Total Hours: 12

## Practicum and Internship

- These courses in Counseling are selected with the adviser on the basis of the student's background and interests.

Minimum Total Hours: 6-10

## Gerontology

- Fifteen graduate hours in gerontology are required except in some instances where a student has had undergraduate hours in gerontology. These courses are selected with the major adviser's assistance and in collaboration with the Gerontology Program.

Minimum Total Hours: 9-15

## Practicum and Internship

- Practicum and Internship are arranged in cooperation with the Gerontology Program to meet both the Counseling Department and the Gerontology Program requirements for practice and field experience.

Minimum Total Hours: 45-51
Course Descriptions

4010/8016 Child Abuse/Neglect: What You Can Do (3) This course is designed to introduce students in the profession of teaching or school counseling with the specifics relevant to how people make vocational choices. Prereq: For 4220, junior or senior.

4220/8226 Career Development and Lifestyle (3) This course is designed to involve students in the exploration of the developmental tasks of mid-life, myths and realities related to career change as well as the implication of career planning. Factual Information, as well as model examination and evaluation are presented to aid the student in becoming better equipped to understand some of the forces which affect the well-being of middle aged persons as they prepare for the later years. Prereq: Junior, permission of instructor.

4700/8706 Mid-Life, Career Change, Retirement Planning (3) This course is designed to involve students in the exploration of the developmental tasks of mid-life, myths and realities related to career change as well as the implication of career planning. Factual Information, as well as model examination and evaluation are presented to aid the student in becoming better equipped to understand some of the forces which affect the well-being of middle aged persons as they prepare for the later years. Prereq: Junior, permission of instructor.

4800/8800 Guidance Skills for Educators (3) Course designed to familiarize educators with guidance activities of schools the educator's role in these activities, and to develop appropriate guidance and listening skills.

4820/8826 Women's Issue in Mental Health (3) This course is designed to acquaint students in Counseling and Social Work with psychological theories and research relevant to women and to explore the implications of this research for diagnosis, treatment and prevention of their mental health problems. Prereq: None.

4980/8985 Counseling Skills in Gerontology (3) This course is intended to develop basic counseling skills for application in gerontology.

8000 Special Students in Counseling and Guidance (1-5) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

8100 Teaching Models in Affective Education (3) A study of models of teaching in the affective areas of education; a variety of models will be explored with special emphasis on planning and implementing activities in classroom situations. Prereq: TED 4850 or SPED 4850 or permission of instructor.

8200 Introduction to Counseling (1) Introductory course for students majoring in Counseling. Selected issues underlying the Counseling profession are studied. Prereq: Admission to Graduate College and Counseling Department.

8930 Counseling Practices (3) This is a pre-practicum course for counseling majors. The course is designed to develop basic counseling skills. Prereq: COUN 8020 or permission.

8040 Professional and Ethical Issues for Professional Counselors (2) This course examines the ethical and professional aspects of individual, couple and family counseling including liabilities incurred by the professional counselor who improperly provides services or fails to provide services. Prereq: Graduate and admission into the Counseling program.

8100 Research Project in Counseling and Guidance (1-3) Individual or group study and analysis of specific problems/issues in the field. Prereq: Permission of instructor.

8120 Counseling With Parents (3) A course emphasizing techniques used in working with families. Prereq: COUN 8250 or 8320 or permission of instructor.

8150 The Student and Student Personnel Work in Higher Education (3) An overview of the characteristics of college students and their interaction with campus environmental influences. The impact of student personnel work is considered as it affects personality growth, social development and career planning by college students. Prereq: TED 8010.

8190 Research Project in Counseling and Guidance (2-3) Research project in study on a problem in the area of guidance and counseling. Prereq: Permission of instructor.

8230 Counseling Theories (3) Study of counseling theories. Prereq: Counseling majors or permission.

8240 Counseling Theories I (3) This course is intended to develop beginning skills in the counseling profession. Prereq: COUN 8300, 8270, 8280, 8320, 8380, 8310, 8370, 8400, 8610 and a grade of "B" or higher in COUN 8300.

8250 Counseling Theories II (3) This course is intended to develop beginning skills in the counseling profession. Prereq: COUN 8300, 8270, 8280, 8320, 8380, 8310, 8370, 8400, 8610 and a grade of "B" or higher in COUN 8300.

8250 Advanced Counseling Practicum (3-4) Continuation of COUN 8220. Prereq: COUN 8220.

8260 Internship (3-6) Field experience in a supervised counseling program under the supervision of a qualified counselor and a guidance professor of the university. Prereq: COUN 8250 with a grade of "B" or higher.

8270 Group Techniques in Guidance (1 or 2) Lecture and formal presentation of issues involving the group process in counseling (1 hour); It may also involve laboratory component stressing the experiential and application of aspects of the group process (3 hours). Students with a departmentally approved group experience take the course for one hour credit. All other students must take the class for three hours credit. Prereq: Admission to graduate program in Counseling or permission of instructor.

8290 Community Involvement for Urban Counselors (3) This course offers a wide range of experiences dealing with the ecology of the urban disadvantaged and its effects upon counseling and analysis of the various types of community counseling agencies that provide this service to disadvantaged individuals as well as those who are not disadvantaged. Prereq: Graduate.

8340 Counseling Techniques I (1) Study of counseling process and techniques emphasizing the Adlerian counselor approach; beginning skills development in the use of these techniques. Prereq: COUN 8200.

8350 Counseling Techniques II (1) Study of counseling process and techniques emphasizing rational Emotive Therapy and other cognitive approaches to begin skill development in the use of these techniques. Prereq: COUN 8200.

8330 Elementary School Counseling Practicum (1-6) Clinical experience in counseling in the elementary school setting under the supervision of a school site counselor and a counseling professor from the Counseling Department. Prereq: Permission.

8350 Advanced Elementary Counseling Practicum (1-6) Advanced clinical experience in counseling in the elementary school setting under the supervision of a school site counselor and a counseling professor from the Counseling Department. Prereq: COUN 8300 and permission.

8370 Group Counseling: Theory and Practice (2) A course designed primarily for counselors with a combination of theory and experiences necessary to the understanding of effective leadership skills involved in the group counseling process. Prereq: COUN 8300, 8280, and 8270.

8400 Counseling Techniques III (1) This course is intended to assist students in developing more systematic integration of previously learned information and skills and the application of those to specific counseling situations. A prerequisite for Counseling Practicum. Prereq: COUN 8330, 8310.

8420 Vocational Counseling (3) This course is designed to provide agency counselors with both practical and professional skills in the area of vocational counseling and decision-making. Prereq: Agency Counseling major or permission.
8430 Counseling Practicum for Secondary School Counselors (3) This course is designed to provide the prospective secondary school counselor with supervision in a school guidance program. Students will continue to develop their counseling skills and learn the guidance functions of a secondary school counselor. Prereq: Completion of 20 hours in the counseling program, COUN 8300, 8310 and 8400, Grade of "B" in COUN 8030.

8450 College Student Personnel Internship (3-6) This course is designed to provide practical work experience under supervision in various areas within student personnel services. Prereq: Permission of instructor. 

8460 Advanced Counseling Practicum for Secondary School Counselors (3 or 6) Students registering for this course will be required to complete 600 hours of supervised practicum. This is a continuation of COUN 8450. It is a field experience in an approved secondary school counseling program under the supervision of a qualified school counselor and a counselor educator. Prereq: A grade of "B" in COUN 8450.

8470 Practicum in Group Counseling (4) Supervised experience co-facilitating group counseling at an approved practicum site. Required as the third course for the cognate area of group work in counseling. Prereq: COUN 8030, 8200, 8270, 8370 or permission.

8520 Counseling and Consulting for Special Concerns I (3) The study of issues pertaining to the provision of counseling and consulting services for specific human maladies including stress, person abuse, substance abuse and crisis intervention strategies appropriate to these conditions. Prereq: COUN 8020 and 8200 or permission for graduate students in other human services disciplines.

8510 Alcoholism Treatment Modalities (3) An examination of alcoholism treatment modalities. Special attention is given to comparison with regard to theoretical perspectives, techniques and effectiveness. Prereq: Graduate in counseling, guidance, social work or psychology. Graduate students in other disciplines with prior training or experience in counseling will be admitted with permission of instructor.

8520 Counseling Multicultural and Diverse Populations (3) The study of issues pertaining to counseling persons from multicultural and diverse backgrounds. Prereq: COUN 8200 and 8300.

8600 Parent-Staff Development and Consultation (3) The study of information, research, consultation and programs for the development of effective parenting skills and effect school staff interaction skills. Prereq: Admission to graduate study in education or permission.

8610 Introduction to Marital and Family Therapy (3) This course is designed to acquaint students in the Human Services field with basic marriage and family counseling theory and techniques. Prereq: Admission to counseling or other graduate program; graduate or permission of instructor.

8620 Survey of Issues in School Counseling (3) This course is to provide school counselors with information on topics that are current and relevant. It will allow students and practicing counselors the opportunity to study and evaluate what activities school counselors are currently engaged in and consideration of strategies to deal with clients and families. Prereq: COUN 8020, 8310 or 8210.

8710 Elementary Classroom Group Guidance and Career Development (3) The study of the systems approach for classroom group guidance and career development in the elementary school. Prereq: Admission to graduate study in counseling or another graduate education departments.

8720 Individual Counseling with Children and Consultation (3) The study of individual counseling with children and consultation with parents and professionals. Prereq: Admission to graduate study in counseling and COUN 8030, 8400 or permission.

8730 Organization and Administration of Elementary Counseling Programs (3) The study of organization and administration of Elementary Guidance and Counseling programs. Prereq: Admission to graduate study in counseling or other graduate study in Education Department. 

8750 Elementary Counseling Groups and Enrichment Programs (3) The study of small group counseling and enrichment programs in the elementary school. Prereq: Admission to graduate study in counseling; COUN 8020, 8270, 8300, 8310, 8400; or permission.

8910 Guiding Gifted Students (3) A course designed to increase teacher awareness of the social and emotional needs of gifted students. Teachers will also develop skills that will assist gifted students in meeting these developmental challenges. Prereq: Admission to graduate study. (Same as TED 8910)

8950 Directed Readings in Counseling and Gerontology (1-3) A study of recent and current literature on counseling with older people. Prereq: Counseling major and COUN/GERO 8866 or permission of instructor.

8990 Thesis (1-6) To develop the student's ability to carry out accepted procedures associated with the research process. Prereq: Permission of instructor/committee chairperson.

9200 Independent Study in Counseling Theories and Techniques (1-3) Guided study of counseling theory and techniques under supervision of faculty member. Prereq: COUN 8200 or permission of instructor.

9250 Practicum in Counselor Supervision (1-6) Faculty-supervised experience for professional practitioners in school/agency settings wanting to develop the competencies identified in the Counseling Professions Standards for Counseling Supervisors. Prereq: Masters Degree in Counseling or related area and permission.
CRIMINAL JUSTICE

PROFESSORS:
Eskridge, Horney, I. Marshall, Secret, Spohn, Wakefield, Walker, Webb

ASSOCIATE PROFESSORS:
Hoffman, Holbert, Kenney, Porter

Degree Programs
The Criminal Justice Department offers the student a choice of either a Master of Science or a Master of Arts Degree in Criminal Justice. Both degree programs emphasize criminal justice research, theory, planning and administration.

Admission Requirements
All candidates for the Criminal Justice Graduate Program must have a minimum of 18 semester hours of Criminal Justice or related courses which represent the core undergraduate curriculum. In addition, all candidates must have completed a basic statistics course, a research methods course, and a minimum of 15 hours in the social science area at the undergraduate level. Those students lacking these requirements will be required to make up these deficiencies during the first year of graduate work.

Master of Arts
The Master of Arts degree is a 30-credit hour program designed to emphasize research activity and independent inquiry, while simultaneously providing fundamental course work. This degree is especially recommended for those students seeking an interim degree prior to obtaining the Ph.D.

To earn the Master of Arts degree in Criminal Justice, the student must satisfactorily complete the following course requirements:

Required Core Courses* ........................................ 9
8000 Professions in Criminal Justice
8010 The Nature of Crime
8020 Seminar in Administration of Justice
8030 Criminal Justice Research Theory and Methodology
* Must be taken within the first 15 hours of graduate course work.

Elective Criminal Justice Courses ........................................ 15
Student selects five courses with adviser approval
8040 Seminar in Police and Society
8050 Seminar in Corrections
8060 Seminar in the Criminal Court System
8070 Seminar in Criminal Law and Procedure
8080 Seminar in Juvenile Justice
8090 Seminar in Theoretical Criminology
8100 Criminal Justice Organization, Administration and Management
8110 Criminal Justice Planning and Change
8180 Criminal Justice Internship
8190 Independent Study
8200 Special Problems in Criminal Justice
8316 Correctional Law
8356 Community-Based Corrections

Elective Cognate Courses
In consultation with an adviser the student selects four courses in a related field. Suggested fields include, but are not limited to: business administration, psychology, political science, social work, and sociology. Satisfactory completion of the comprehensive examination also is required.

Master of Science
Public Administration Option
To earn the Master of Science degree in Criminal Justice, Public Administration option, the student must satisfactorily complete the following course requirements:

Required Core Courses ........................................ 9
8000 Professions in Criminal Justice
Elective Criminal Justice Courses ........................................ 15
Student selects five courses with adviser approval:
8040 Seminar in Police and Society
8050 Seminar in Corrections
8060 Seminar in the Criminal Court System
8070 Seminar in Criminal Law and Procedure
8080 Seminar in Juvenile Justice
8090 Seminar in Theoretical Criminology
8100 Criminal Justice Organization, Administration, and Management
8110 Criminal Justice Planning and Change
8119 Seminar in Police and Society
8200 Special Problems in Criminal Justice
8316 Correctional Law
8356 Community-Based Corrections
Satisfactory completion of the comprehensive exam also is required.

Master of Science
Social Work Option
To earn the Master of Science degree in Criminal Justice, Social Work option, the student must satisfactorily complete the following course requirements:

Required Core Courses* .................................................. 9**
8000 Professions in Criminal Justice
8010 Nature of Crime
8020 Seminar in Administration of Justice
8030 Criminal Justice Research Theory and Methodology
* Must be taken within first 15 hours of course work.
** All courses except 8000 carry three hours credit.

Required Social Work Courses ........................................... 12-14
General Option
8000 Human Behavior and the Social Environment .......... 4
8050 Social Welfare Policy, Services and Analysis .......... 4
8100 Social Work Practice I (Generic) ......................... 2
8120 Social Work Practice II (Generic) ......................... 2
8140 Social Work Practice III (Macro) ......................... 2
8186 Permanence for Children .................................... 3
8660 Social Work in Child Welfare .............................. 3
Minority Emphasis ......................................................... 14
8000 Human Behavior and the Social Environment .......... 4
8050 Social Welfare Policy, Services and Analysis .......... 4
Student selects two of the following courses:
8200 Institutional Racism
8876 Social Work with Black Youth
8876 Social Work with Hispanics
8876 Social Work with American Indians

Elective Criminal Justice Courses ................................. 13-15
Student selects five courses with adviser approval:
8040 Seminar: Police and Society
8050 Seminar: Corrections
8060 Seminar: Criminal Court System
8070 Seminar: Criminal Law and Procedure
8080 Seminar: Juvenile Justice
8090 Seminar: Theoretical Criminology
8100 Criminal Justice Organization, Administration, and Management
8180 Criminal Justice Internship
8190 Independent Study
8200 Special Problems in Criminal Justice
8318 Correctional Law
8358 Community-Based Corrections

Satisfactory completion of the comprehensive exam also is required.

Course Descriptions

4310/8316 Correctional Law (3) The law of corrections as it pertains to the institutionalized and community-based offender will be considered. Legal issues relating to sentencing (including the death penalty), prisoner’s “rights” in institutions and community-based corrections, procedural protections before the loss of offender “rights” and restoration of civil rights will be examined. Prereq: None.

4930/8936 Community-Based Corrections (3) A course for advanced students with special interest in the correctional process as applied in a community setting. It is designed specifically to focus on probation, parole and other current community-based strategies for dealing with the offender. Prereq: None.

4910/8916 Special Topics In Economics (1-3; may be repeated up to 6) A series of special courses each designed to focus on current major topics and developments in a specific area of economics or business, scheduled as a workshop or seminar according to purpose. Prereq: Graduate student or advanced undergraduate student and as indicated for specific workshop or seminar.

6000 Professions In Criminal Justice (0) A required non-credit course for graduate students in criminal justice. Intended to familiarize the beginning graduate student with the criminal justice profession including such topics as the historical development of the field of criminal justice, professional organizations, job opportunities and the use of reference materials. Prereq: Admission to graduate program in criminal justice.

8010 The Nature of Crime (3) This course provides an overview of the major dimensions of crime in the U.S. Content areas include the epidemiology of crime, the costs of crime and typologies of crime and criminals. Prereq: Graduate and permission of instructor.

8020 Seminar In Administration of Justice (3) This course is designed to provide students with a critical understanding of responses to crime. Particular emphasis is placed on theory and research bearing upon the effectiveness of the policies and strategies of the principal institutions of the criminal justice system: the police, courts and corrections. Additionally, philosophical and practical matters pertaining to “justice” and “fairness” in the administration of the criminal law are explored. Prereq: Graduate and permission.

8030 Criminal Justice Research Theory and Methodology (3) Research theory and methodology in the social sciences as applicable to criminal justice; preparation of research designs, conceptual models; sampling procedures; and development of individual research papers. Prereq: Graduate and permission.

8040 Seminar In Police and Society (3) This course is designed to explore the role of the police in American society. Attention is given to the origins of policing, the nature of police organizations and police work, and patterns of relations between the police and the public. The values of a democratic society as they affect the law enforcement role are discussed. Prereq: Graduate and permission of instructor.

8050 Seminar in Corrections (3) This course is designed to give an analytical perspective to the history, development, implementation and future of critical issues in the field of corrections. Primary focus will be directed toward an exploration of the various theoretical approaches to corrections and the research intended to support or refute these perspectives. Prereq: Graduate and permission of instructor.

8060 Seminar In the Criminal Court System (3) This course is designed to provide a social science perspective on the role of the courts in the criminal justice system. The ideals of the system will be compared with actual functioning, and court reform programs and proposals will be critically examined. Prereq: Graduate and permission of instructor.

8070 Seminar In Criminal Law and Procedure (3) This course is designed to examine substantive criminal law as the basis of social control in our country. Contemporary issues such as the insanity defense, decriminalization of so-called victimless crimes, sexual assault and abortion, and current proposals to assist victims of crimes will be among the topics explored. In addition, current criminal procedure problems relating to right to counsel, search and seizure and interrogation will be examined. Prereq: Graduate and permission of instructor.

8080 Seminar In Juvenile Justice (3) An inquiry in the social ramifications of the entire juvenile delinquency process including labeling, detention, incarceration and tolerance. Pre- and post-adjudicatory issues are dealt with as well as a realistic perspective given to delinquency prevention strategies. Prereq: Graduate and permission.

8090 Seminar In Theoretical Criminology (3) A study of the etiology of crime as a social phenomenon and an objective analysis of the historical influences and thought which molded its development into an accepted contemporary science. Prereq: CJUS/SOC 3550, graduate and permission of instructor.

8100 Criminal Justice Organization, Administration and Management (3) This course will deal with issues in the organization and administration of modern justice agencies. The students will be exposed to the core concepts, models, and issues relating to the administration and organization of justice agencies. Prereq: Acceptance in the graduate college and permission of instructor.

8110 Criminal Justice Planning and Change (3) This course provides an introduction to the basic concepts, theories and processes in criminal justice planning. Course content includes examination of planning data sources and application of fiscal planning, manpower planning and strategic policy planning to criminal justice. Prereq: Graduate and permission of instructor.

8160 Criminal Justice Internship (3) This course is designed to provide supervised individualized learning experiences in a selected criminal justice agency. The principal objective of the internship is to provide students with the opportunity to apply theoretical and methodological principles acquired in graduate courses to the analysis of problems in local criminal justice agencies. Prereq: Successful completion of 15 hours of graduate work and permission of instructor.

8170 Independent Study (1-3) Individual projects in research, literature review or creative production which may or may not be an extension of course work. The work will be supervised and evaluated by departmental graduate faculty members. Prereq: Graduate hours in major department and permission of instructor.

8200 Special Problems In Criminal Justice (3) A course devoted to an exploration and analysis of contemporary special problems in the broad spectrum of law enforcement and corrections. Prereq: CJUS graduate student and permission of instructor.

8990 Master's Thesis (1-6)
The Master of Arts program in Dramatic Arts offers
concentrated study in theatre history, literature, theory and
production. The overall goal of the program is to enrich the
student's understanding of theatre as a humanistic and
liberalizing art, to broaden and deepen an appreciation of
the drama and theatre history, to introduce the student to
research in theatre and drama, and to strengthen skills
and creativity in the arts of theatre production.

The program is broadly flexible and allows each
student to design a plan of study that meets individual
needs and goals. With four main stage productions and at
least two graduate-directed productions each year,
opportunities for applied work are considerable. The
combination of practical production activity and stimulating
course work creates for the advanced student a wide
variety of learning situations. As part of an urban
university, moreover, the UNO Dramatic Arts Department
has close ties to the Omaha community and encourages
work that takes advantage of these ties. For although the
department is committed to nurturing a greater under­
standing of American and world theatre, our natural con­
stituency is the Omaha and Great Plains region, and it is
these people we serve through our efforts in theatre schol­
arship, production and outreach.

An applicant for graduate study in Dramatic Arts must
present a minimum of 15 undergraduate semester hours
with a "B" average in appropriate courses or experience
equivalent to undergraduate training in theatre.
Background in costume, makeup, stagecraft, design,
lighting, acting and literature must be demonstrated by
transcript, by further undergraduate course work or by
demonstrating proficiency. In order to begin a review of
credentials, the student should contact the chairperson of
the Graduate Program Committee (phone 554-2406 for
further information). Deficiencies will be determined by the
Graduate Program Committee and ideally should be made
up in the first year of study.

The department accepts the Miller Analogy Test (MAT)
as well as the Graduate Record Examination (GRE) for
admission. The graduate program in Dramatic Arts is
designed to insure that students are familiar with the field
as a whole and that they can demonstrate master's-level
competence through a thesis or final project and a written
comprehensive examination at the conclusion of their
course work.

The student is eligible for admission to candidacy for the
Master of Arts program when a Plan of Study has been
developed to satisfy all deficiencies, a three-hour research
methods course and six hours of graduate courses
completed, and either the MAT or GRE scores put on file.

Upon eligibility for candidacy, the student will submit the
Plan of Study to the Graduate Faculty via the chairperson
of the Graduate Program Committee.

All candidates are required to take a course in research
methods in their first 12 hours of program study and to
complete one of the following plans of study:

Option I:
Successful completion of at least 24 semester hours of
course work including at least 12 hours in 0-level courses;
plus a thesis (six credit hours) based on a proposal
approved by the student's committee and defended orally
before the committee when completed.

Option II-A or -B:
Successful completion of at least 30 (Option A) or 33
(Option B) semester hours of course work including at
least 12-15 hours in 0-level courses; plus a Final Project
(six or three hours, depending on Option A or B)* consist­
ing of major responsibility in a production approved by the
Dramatic Arts faculty and the Graduate Program
Committee in Dramatic Arts or an equivalent major effort
in, for example, playwriting or a project of sufficient
challenge and depth which is approved by the Dramatic
Arts Graduate Program Committee. A final prompt book,
journal, portfolio, script or equivalent documentation will be
assembled upon completion of the project and presented
to the student's committee. The student will make an oral
defense of the project before the committee.

Students are directed to obtain a copy of the M.A.
Program Guidelines from the department office for more
detailed information on the program process and
requirements.

*At least one-half the hours of non-thesis course work in a plan of study
should be in courses which are restricted to graduate students only (8—0 or
9—0).
Course Descriptions

4010/4020/8016-8026 Advanced Projects in Dramatic Arts (1-3) Special projects in dramatic arts supplementing regular courses; individual research projects combined study and practicum. Prereq: nine hours of dramatic arts in the general area to be studied and permission of instructor. 4090/8096 Advanced Oral Interpretation (3) Theories and forms of interpretation from antiquity to the present. Preparation and presentation of a recital. Prereq: DART 1090.

4310/8316 Advanced Acting Studio I: Characterization and Analysis (3) Advanced work in the technical skills of voice, speech, movement, and textual analysis. Exploration of the mask to create character. Development of a technique designed to meet the needs of any text. 4320/8326 Advanced Acting Studio II: Historical Periods and Styles (3) The fundamental theories and practices of major styles of acting from ancient Greece to the 18th century, including interpretation of outstanding dramatic literature. Prereq: DART 2310-2320 or permission of instructor.

4330/8336 Advanced Acting Studio III: Ensemble Play Production (3) In-depth exploration of a play or playwright's work to connect acting class with performance. Special emphasis on creating a working process that allows the ensemble to emerge. The class will culminate in public performance. Prereq: Graduate with an undergraduate major or minor in theatre or permission of instructor.

4340/8346 Advanced Acting Studio IV: Auditioning (3) An acting class designed to develop audition skills and material as well as cultivate a working knowledge of the business of acting. Prereq: Graduate with an undergraduate major or minor in theatre or permission of instructor.

4440/8446 Directing: Rehearsal and Performance (3) A practicum in play selection, analysis, casting, directing and performing. Prereq: DART 1010, 1630, 2060, 2310 or permission of the instructor.

4500-4510/8506-8516 Costume Design (Each 3) An introduction to the fundamentals of stage costume design, including line, silhouette, movement, color, texture and theatrically. Emphasis on the visual presentation of designs, including considerable work with life drawing and rendering technique. Prereq: DART 2060, 3510; ART 1100, 1210 or permission of instructor.

4610/8616 Scene Design (3) Principles of composition perspective and color for the stage; the designer's approach to the play, production of ground plans, elevations and sketches. Prereq: DART 1010, 2060, 1630, 2630; and junior. For 8616, graduate with an undergraduate major or minor in theatre or permission of instructor.

4670/8676 Stage and TV Lighting (3) Characteristics and control of light and color and their application to the theatre and television; elementary electricity; lens systems; reflectors, lamps; control systems. Prereq: DART 1010, 1630, 2060.

4710/8716 History of the Theatre to 1642 (3) A historical survey of the theatre and its literature from its origins to 1642.

4720/8726 History of the Theatre Since 1642 (3) A historical survey of theatre and its literature from 1642 to the present.

4730/8736 Seminar in Theatre History (3) Selected topics in theatre history from ancient to modern times. The subject of the course will change each year, according to the interest of the students and the instructor. Prereq: Permission of instructor.

4750/8756 Theatre and Social Change (3) The course will combine research and practice in theatre that involves social change. Students will study the history of such theatre, with special focus on developments in the 20th century. All research will be accompanied by several projects whereby students will create theatre for social change. Prereq: Graduate in Dramatic Arts. Graduate outside Dramatic Arts with sufficient background in theatre and sociology/political science require permission of instructor.

4830/8836 Seminar in Dramatic Literature (3) A seminar for graduate and advanced undergraduate students which will explore selected subjects in dramatic literature in depth. Research papers and seminar reports will be required. The subject of the seminar will change from year to year. Prereq: Permission of instructor.

8000 Special Topics in Theatre and Drama (3) A variable content course dealing with theatre and drama. Each offering will treat a single aspect of theatre or drama in depth, e.g., Shakespeare in performance, the history of acting theory, the history of theatrical design, etc. Prereq: Graduate or permission of instructor.

8430 Seminar in Play Direction (3) An in-depth study of the principles of play direction. Prereq: Graduate and permission of Instructor.

8630 Technical Theatre Problems (3) Research and dialogue in the aesthetics and physical results of the relationships between dramatic form, the theatre architecture and scenic design and lighting from historical and contemporary points of view. Prereq: DART 1010, 3660, 4610, 4710, 4720 or permission.

8900 Dramatic Arts Research Methods (3) This course is designed to introduce graduate students in dramatic arts to basic techniques of scholarly research: gathering material, defining the problem and preparing the manuscript. Prereq: Admission to graduate program in Dramatic Arts.

8910 Dramatic Theory and Criticism (3) For advanced students of dramatic literature, important dramatic theories and criticism from antiquity to the present. Prereq: DART 1010 or permission of instructor.

8920 Seminar in Contemporary Theatre Aesthetics (3) 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. Prereq: DART 1010, 4710, 4720 and ENGL 2520 or permission.

8980 Thesis (1-3) Independent research project written under the supervision of an advisor.
The graduate program in economics is designed to provide a solid background in theory, quantitative methods and application appropriate to the needs of economists involved in the analysis of domestic and international business and economic conditions, financial analysis, policy analysis, forecasting, simulation and related work. In addition, the program prepares students for further graduate work in economics and related fields.

Admission is based on GPA and undergraduate field of study.

**Master of Science**

The M.S. program consists of core requirements (12 hours), an elected specialization (nine to 12 hours), electives (15 to 18 hours, depending on the specialization elected), and a comprehensive examination in the area of specialization. No thesis is required for the M.S. degree. All courses are three credits.

Total hours required: ............................................. 36

Each student must complete the core requirements.

**Core** ............................................................. 12

- ECON 8200 Microeconomic Theory
- ECON 8220 Macroeconomic Theory
- ECON 8300 Econometrics
- ECON 8306 Quantitative Applications in Economics and Business

**Electives** .................................................. 30

- ECON 8200 Microeconomic Theory
- ECON 8220 Macroeconomic Theory
- ECON 8266 History of Economics Thought
- ECON 8306 Quantitative Applications in Economics and Business
- ECON 8300 Econometrics

*Not required for students demonstrating satisfactory mathematical skills. In that case, add three hours to electives.

Each student may elect a specialization from those suggested below. Other specializations may be approved by the Economics Program Graduate Adviser.

Specializations consist of either nine or 12 hours of interrelated graduate-level coursework.

**Suggested Specializations**

### Business Economics ......................................................... 12

- ECON 8160 Seminar in Labor Economics
- ECON 8210 Managerial Economics
- ECON 8216 Industrial Organization
- ECON 8230 Business Conditions Analysis
- ECON 8310 Forecasting
- ECON 8456 Monetary Theory and Policy
- ECON 8616 International Trade
- ECON 8262 International Monetary Economics

**Monetary and Financial Economics** ........................................ 12

(select four courses)

- ECON 9010 Public Finance
- ECON 8456 Monetary Theory and Policy
- ECON 8450 Seminar in Money and Banking
- BSAD 8550 Banking and Financial Markets
- ECON 8262 International Monetary Economics

**International Economics** .............................................. 9

(select three courses)

- ECON 8616 International Trade
- ECON 6226 International Monetary Economics
- ECON 8650 Seminar in International Economics
- ECON 6266 International Economic Development

**Public Policy Economics** .................................................. 9

- ECON 8610 Public Finance
- ECON 8216 Industrial Organization
- ECON 8626 Natural Resource Economics
- BSAD 8556 State and Local Finance

**General** ............................................................. 12

(Graduate-level elective courses. Approval of Economics Program Graduate Adviser required.)

**Master of Arts**

The M.A. program consists of core requirements (15 hours), an elected specialization, electives as necessary (including six hours of thesis), a comprehensive exam in the area of specialization, and a defense of the thesis.

Total hours required: ............................................. 30

**Core** ............................................................. 15

- ECON 8200 Microeconomic Theory
- ECON 8220 Macroeconomic Theory
- ECON 8266 History of Economics Thought
- ECON 8306 Quantitative Applications in Economics and Business

**Electives** .................................................. 15

- ECON 8990 Thesis

**Suggested Specializations**

Specializations are the same as those described under the M.S. program, with the following additional specialization available for the M.A. program:

**Real Estate and Land Use Economics** .................................. 18

BSAD 8500 Real Estate and Land Use Economic Theory

BSAD 8510 Current Problems in Real Estate

BSAD 8990 Thesis** .................................................. 6

**Course Descriptions**

**4210/8216 Industrial Organization** (3) An analysis of the structure and behavior of industries and their effect on economic performance. Involves detailed applications of microeconomic theories and concepts and provides a basis for public policy evaluations. Prereq: ECON 2010 and 2020 or permission of instructor.

**4260/8666 History of Economic Thought** (3) The first half of the course focuses on the development of economics from Adam Smith in 1776 to John Maynard Keynes in the 1930s. The second half of the course uses the history sketched in the first half as a partial basis for addressing important questions about the methodology, institutional structure and policy impact of economics. Prereq: ECON 2010 and 2020 or equivalent.

**4300/8306 Quantitative Applications in Economics and Business** (3)

The study and application of modern quantitative techniques to problem-solving in economics.
ECONOMICS

solving in economics and business. Prereq: ECON 2010, 2020 and DSCI 2120 or permission of instructor.

4320/8320 Natural Resource Economics (3) Energy, minerals, fisheries, water, land, pollution and competition are among the topics. The course covers the basic theoretical framework for understanding the optimal rate of use, identifies the factors which determine the actual rate of use, and considers and evaluates various public policy prescriptions. Prereq: ECON 2010 and 2020 or permission of instructor.

4450/8456 Monetary Theory and Policy (3) This course traces the development of monetary theory from the classical theory to current monetary theories. Besides the classical theory, the monetary theories of Keynes, the neo-Keynesians, and the neo-classical are examined and compared. The implications of each school for monetary policy are examined. Prereq: ECON 3220 or permission of instructor.

4610/8610 International Trade (3) An analysis of the character of international economic relations. Subjects covered include the economic basis for International Specialization and trade, the economic gains from trade, commercial policy, economic integration, and economic growth. Prereq: ECON 2010, 2020 or permission.

4620/8620 International Monetary Economics (3) An analysis of the international monetary system. Subjects covered include the balance of payments adjustment mechanism, alternative exchange rate systems, external effects of monetary and fiscal policy, foreign investments and international monetary reform. Prereq: ECON 2010 or 2020 or permission of instructor.

4650/8650 International Economic Development (3) Problems relating to early stages of economic development; investment, savings, and policies and programs are studied. Prereq: ECON 2010 and 2020 or permission of instructor.

8010 Seminar: Public Finance (3) This course is designed to develop the tools of applied welfare economics and to use these tools to evaluate the expenditure and tax decisions of governments. The structure, effects and reform of the U.S. individual and corporate income taxes will be emphasized. Prereq: ECON 3200 or 8210 or BSAD 8100.

8050 Economic Education (3) A study and examination of economic principles and how they can be related to the teacher's classroom presentation. The course is designed to help the public school teacher (K-12) with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles. Prereq: No previous course work in economics. Not open to Economics majors.

8160 Seminar in Labor Economics (3) A study and investigation of current developments and issues involving labor institutions, labor relations, wage theories and employment policies. Prereq: ECON 3200, 3220 and three hours of credit in undergraduate labor economics or permission.

8200 Seminar in Micro Theory (3) This course deals with the current state of microeconomic theory. The major topics covered are the theory of consumer behavior, theory of production and cost, theory of the firm, distribution theory and welfare theory. Prereq: ECON 3200, 3220 and 8300 or permission.

8210 Managerial Economics (3) Microeconomics for graduate students of business. Economic analysis of the business firm and its environments, with emphasis on market structure, production possibilities and cost factors. Additional consideration is given to the theory of the firm under conditions of uncertainty. Prereq: Graduate in Economics or in College of Business Administration, ECON 2020 or equivalent, and a course that includes a basic introduction to the main rules for differentiating functions. (Same as BSAD 8100)

8220 Seminar in Macro Theory (3) This course traces the development of macroeconomic theory from the classical point of view to current schools of thought. Keynesian, neo-Keynesian and neo-classical models are developed. Prereq: ECON 3200 and 3220 or permission.

8230 Business Conditions Analysis (3) This course is concerned with the statistical 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 statistical techniques of analysis to the business situation, within the framework of the aggregate economy. Prereq: ECON 2020 or BSAD 8100. (Same as BSAD 8850)

8270 Contemporary Economics for Business Management (3) Only students who have been admitted to the Executive MBA program may take this course. This course will familiarize students and professionals with the macroeconomic and the macroeconomic principles relevant to: (a) individual and business firm decision-making; (b) the domestic and international environment in which economic decisions are made; and (c) the evaluation of policies designed to solve economic problems. Prereq: Graduate in Executive MBA program.

8281 Research Methods in Economics and Business (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. Prereq: DSCI 2120 or its equivalent. Not open to students who have had BSAD 8020.

8300 Econometrics (3) The study of the underlying assumptions, techniques and applications of regression analysis in economics. Prereq: ECON 8060 or 8280 or permission.

8310 Business Forecasting (3) This course includes a comprehensive survey of forecasting methods and in-depth study of selected techniques most commonly used in business environments. Emphasis is given to applications and therefore students will be required to develop forecasting models and test their performance as part of the course. Prereq: BSAD 8850 or permission of instructor. (Same as BSAD 8880)

8450 Seminar in Money and Banking (3) Original research and writing of papers on basic problems in the area of money and banking. Prereq: Six hours in undergraduate monetary courses or permission of the Instructor.

8460 Economic Theory: Economics for Managerial Decisions (3) Only students who have been admitted to the Executive MBA program may take this course. This course will teach students analytical techniques based on the theory of the firm for application to business management decisions. Emphasis will be placed upon bridging the gap between economic theory and management practice. The student will learn to evaluate the impact on the firm of national and international market conditions and policies. Prereq: Graduate in Executive MBA program and ECON 2010 and 2020, or ECON 8100, or the initial economics course in the Executive MBA course sequence.

8580 International Business and Economics (3) Only students who have been admitted to the Executive MBA program may take this course. The nature, behavior and economic environment of international business are surveyed in this course. The focus will be on the development of international business opportunities by the domestic and multinational firms as they interact with their environments. This course provides a knowledge of the development of international opportunities as they are influenced by international trade, monetary economics, finance and management. As such, the course is multidisciplinary. Prereq: Graduate in Executive MBA program.

8590 Seminar in International Economics (3) An analysis of the theory of International trade and the working of the international monetary system. Prereq: ECON 3650 or 4690 or permission of instructor.

8650 Seminar in Urban Economics (3) An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution. Prereq: At least six hours of upper division course work in economics or permission of the instructor. (Same as SOC 8650)

8670 Seminar in Regional Economics (3) An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and analyzing economic problems of a regional nature. In addition, policy alternatives, decision-making and measurement techniques are examined. Prereq: At least six hours of upper division course work in economics or permission of instructor.

8690 Thesis (1-6) An independent research project, written under the supervision of a graduate adviser in the department of economics. Approval of the topic and the completed project by departmental committee is required.
EDUCATIONAL ADMINISTRATION AND SUPERVISION

PROFESSORS:
Petrie, D. Weber

ASSOCIATE PROFESSORS:
Hartzell, McKay, Ward,

Admission to a Degree Program
Students interested in entering a degree program in the Department of Educational Administration and Supervision are strongly urged to contact the department office, 414 Kayser Hall, before beginning the process of admission. The department will supply detailed descriptions of choices, opportunities, requirements and responsibilities.

Admission to a degree program in Educational Administration and Supervision involves a review of the student’s application by the department’s admissions committee. Because the review of submitted materials may require several weeks, deadlines for application have been established for each term. The application deadlines are:

- April 1 for the following fall semester; May 1 for the following summer sessions; November 15 for the following spring semester.

The specific application materials required include the following:

First, the student needs to apply for admission to the Graduate College. The procedure for doing this appears in the "Special Information" section of this catalogue. The submission of official transcripts for all previous college work, including the verification of a Master's Degree for Educational Specialist work, is a part of the Graduate College admission procedure.

Second, the applicant must submit the following materials to the department:

1. Scores from either the Miller’s Analogy Test (MAT) or the Graduate Record Examination (GRE). Acceptable minimum scores vary according to the requirements of the program chosen.

2. Scores demonstrating passage of the Pre-Professional Skills Test (PPST) as defined by State of Nebraska. Passing scores are 170 or better in reading, 171 or better in mathematics, and 172 or better in the writing portion.

3. Letters of reference from persons who can speak to the student’s professional competence and potential as an administrator. Forms for the letters can be obtained in the department office, 314 Kayser Hall.

4. A personal letter of application written by the student and covering such topics as interest, experience, and career goals.

5. Verification of teaching or administrative endorsement and experience.

If all materials are not received by the deadline, the student’s application will be added to those under consideration for the next term.

All applications are reviewed by the department’s Graduate Program Committee. Admission decisions are based upon the student’s demonstrated potential for successful graduate work, professional training, and success in the field. Submission of all required materials and documentation is not a guarantee of acceptance.

Admission to a Certification Program
Admission to a certification program in Educational Administration and Supervision, whether pursued separately or in conjunction with a degree program, requires that the student submit the same application materials as listed above plus verification of teacher certification and teaching experience.

Available Programs
In Educational Administration and Supervision
Detailed descriptions of admission requirements, course requirements, time lines, and examinations for each specific program and combinations of programs are available from the department. The following are general overviews.

Master of Science
Students obtain a Master’s degree in Educational Administration and Supervision with an area of specialization. Current speciality areas include Elementary School Administration, Secondary School Administration, and Educational Media Administration.

All students pursuing a Master’s Degree in Educational Administration are required to (1) take the Core Courses in Educational Administration and Supervision listed below, (2) take two elective courses chosen with the adviser’s approval, (3) take and pass a written comprehensive examination at or near the end of their course work, and (4) maintain a 3.0 grade point average in all work taken in the program.

A minimum of 33 hours must be taken after admission to the program.

Core Courses for Students in Elementary and Secondary Administration
TED 8010 Introduction to Research in Education..3
EDAD 8020 Governance and Politics.......................3
EDAD 8030 Introduction to Educational Theory............3
EDAD 8050 School-Community Relations...................9
EDAD 8460 Administration & Supervision
  of Elementary Schools..................................9
  -or-
EDAD 8470 Administration & Supervision
  of Secondary Schools...................................9
EDAD 8550 School Business Management..................3
EDAD 8700 Administration and Staff Personnel..........3
EDAD 8710 Interpersonal Relations
  in School Administration...............................3
EDAD 9540 School Law......................................3
**EDUCATIONAL ADMINISTRATION AND SUPERVISION**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SPED 8030</td>
<td>Special Education Alternatives</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 8400</td>
<td>Practicum in School Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Courses for Students with an Emphasis in Media**

Core courses for the media emphasis include TED 8010, EDAD 8020, EDAD 8030, EDAD 8550, EDAD 8710, EDAD 9540, EDAD 8860 (Admin. of the Instructional Materials Center), and SPED 8030.

**Approved Elective Choices**

Two elective courses to total six units chosen with the approval of the adviser.

Elective courses for the media emphasis are selected from the Media/Library curriculum in cooperation with the student's adviser.

**Comprehensive Examination**

Upon completion of course work, or in the last semester of course work, a comprehensive examination is required of all students. The examination draws on concepts, knowledge, and skills from all courses taken. A detailed description of the comprehensive examination is available from the department.

**Specialist in Education Degree**

An application for admission to the Specialist in Education degree in the Department of Educational Administration and Supervision must be certified at either or both the elementary or secondary teaching level and hold a Master's degree from an accredited institution.

Together with the Master's degree, the program must total a minimum of 59 graduate hours. The program is carried out under the direction of a graduate faculty supervisory committee. Prior to admission to candidacy, all students must successfully pass the designated qualifying examination.

Students seeking added endorsements must be pursuing a committee approved program. The assistance of a faculty adviser should be sought at the starting point.

Students in educational administration can earn degrees structured to include course work leading to appropriate certificates. Also, course work taken to satisfy requirements for the M.S. and Ed.S. degrees in educational administration normally can be articulated fully into the plan of study for an Ed.D. or Ph.D. in administration. Additional information can be obtained from the chairperson, Educational Administration and Supervision, UNO (554-2721).

For information about the Doctorate in Education Degree contact the chairperson, Educational Administration, UNO (554-2721).

**Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>4880/8880</td>
<td>Administration of the Instructional Materials Center</td>
<td>3</td>
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</tbody>
</table>

A course designed for students who wish to prepare themselves for the administration of an educational media program within an elementary and/or secondary school. (Same as TED 8886)

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<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>8000</td>
<td>Special Studies in Educational Administration and Supervision (3)</td>
<td>A series of intensive courses especially designed for educational administrators and supervisors scheduled as regular seminars or workshops, according to purpose.</td>
</tr>
<tr>
<td>8020</td>
<td>Governance and Polities in Educational Administration (3)</td>
<td>This course explores the expanded federal and state presence in local school districts. Historical and political factors influencing the governance of today's schools are discussed, as well as current trends. Prereq: Admission to Graduate College.</td>
</tr>
<tr>
<td>8030</td>
<td>Introduction to Theory in Educational Administration (3)</td>
<td>This course is a survey of the theoretical foundations of educational administration. Theory is applied in the description and analysis of educational organizations. Prereq: Admission to Graduate College.</td>
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</table>

**8050 School-Community Relations (3) This program is designed to acquaint the student with all aspects of school-community relations. Primary attention will be given to study and research of effective principles and practices in school-community relations.**

8060 Administering School Discipline (3) Course will be an opportunity for students to develop increased awareness of the circumstances in the school and professional skills relating to school discipline and how discipline might be administered more successfully. Students will develop model rules, regulations, policies and procedures based on disciplinary strategies and general prevention programs. Prereq: Graduate.

8100 Independent Study in Educational Administration (1-3) Individual or group study and analysis of specific problems in educational administration and supervision. Prereq: Admission to the department.

8250 Data Processing in Educational Administration (3) A study of systems as planning bases for administration, and the role of electronic data processing in implementation.

8300 Research in Educational Administration (3) This course includes a survey of research in educational administration and a study of the application of specific basic and intermediate statistical procedures in research in the field. Prereq: Admission to the specialist program in Educational Administration and Supervision or permission of instructor.

8400 Practicum in Educational Administration and Supervision (3) A course designed to provide guided study and practice in elementary, secondary and general administration and supervision as the student requires. Prereq: Completion of 24 hours of graduate study and approval of written application.

8410 Practicum in Educational Administration and Supervision (3) Continuation of Education 8400. Continued study and practice under guidance in elementary, secondary or general administration, and supervision as the needs of the student require.

8460 Administration and Supervision in Elementary Schools (3) The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.

8470 Administration and Supervision in Secondary Schools (3) The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.

8490 Theory and Practice of Supervision (3) An in-depth inquiry into the nature and function of supervision in the modern school. This course will incorporate the salient psychological, sociological, business administration and educational administrative concepts of personnel and organizational development as they apply to educational systems. Prereq: EDAD 8550, 8460 or 8470.

8540 School Business Management (3) An analysis of the functions of business management: budgetary procedures; financial accounting, auditing and reporting; management of funds, purchasing procedures and inventory; administration and protection of property; and administration of transportation.

8560 School Finance (3) A study of the sources of school financing: local, state and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance.

8620 Educational Plants and Their Equipment (3) Designed to give the school administrator competence in planning the school building; site selection, building construction and design; school furniture and equipment; maintenance and operation; rehabilitation and remodeling; scheduling of work; and custodial care. Prereq: Graduate.

8700 Administration and Staff Personnel (3) 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.

8710 Interpersonal Relationships in Educational Administration (3) This course is designed specifically to deal with interpersonal and group relations. It should be useful to those administrators who recognize the need to increase their knowledge and skill in human relations.
8720 Multicultural and Non-Sexist Awareness (1) A course for educators seeking renewal of their current teaching and administration credentials. The content of the course is to develop an awareness of the cultural diversity in American society and to develop skills to effectively meet the needs of students, parents and others who make up their school communities. Prereq: A valid Nebraska teaching and/or administrative certificate of endorsement.

8800 Administration and Supervision of Vocational Education (3) Basic concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor. (Same as TED 8800)

8810 Urban School Administration (3) This course is designed to acquaint students with educational administration with urban problems and issues which most significantly affect the administration of city schools.

9000 Seminar in Research Design (3) 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. Prereq: Admission to education specialist program.

9010 Advanced Seminar in Educational Administration (3) 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. Prereq: Admission to education specialist program.

9050 Collective Bargaining in Education (3) The course is an overview of labor relations in educational settings. Attention will be given to bargaining methods of negotiations, competencies needed and ratified agreements. Simulations will be used. Prereq: Graduate.

9110 Field Project in Educational Administration (1-3) The study of a problem in the area of school administration, employing the techniques of research. Prereq: Admission to the education specialist program.

9200 Supervision Practicum (3) A practicum course for graduate students in educational administration and supervision. Prereq: Master's degree and permission.

9500 Internship in School Administration and Supervision (3 hours per semester; may take two semesters) A systematic exposure to the operation of educational institutions. Studying educational administration and supervision on site, the graduate student's responsibilities will be documented in a set of written specifications agreed to by the student, the site supervisor and the university professor. Prereq: Master's degree and permission of department chairperson.

9540 School Law (3) This course is concerned with laws related to schools. Topics include certification, contract, negligence, curriculum, admission, pupil control and transportation. Each is approached through study of most recent court pronouncements.

9990 Dissertation (Arranged) The course is designed to allow the advanced doctoral student to demonstrate technical mastery of the discipline and to advance knowledge by completing a major empirical investigation. Prereq: Admission to candidacy and approval of research topic by the student's supervisory committee.
ENGLISH

PROFESSORS:
Baker, Boss, McKenna, Newkirk, Skau, Walsh

ASSOCIATE PROFESSORS:
Detisch, Mundell, Raabe

ASSISTANT PROFESSORS:
Mordant, Peterson, Sadlek, P. Smith

Master of Arts

To be admitted to graduate study in English, a student should have completed at least 18 credit hours in undergraduate English courses above the freshman level with an average grade of "B" or above. In addition, the student is required to pass either the Miller Analog Test (MAT) with a score above 30 or the general aptitude section (not the advanced area) of the Graduate Record Exam (GRE) with a verbal score above 350. For foreign students, a score of 600 on the TOEFL examination is now accepted as equivalent to the minimum of 30 on the MAT or 350 on the GRE.

All candidates for Master of Arts degrees with majors in English are required to take English 8010 (Introduction to Literary Research) within the first nine hours of graduate study and to complete one of the following plans of study:

Option I: Successful completion of 24 credit hours in course work, including at least 12 hours in seminar-level courses; plus a thesis (six credit hours) on an approved topic accepted after oral defense before a faculty committee; plus a comprehensive written examination over a designated body of literature or language prepared and judged by a faculty committee.

Option II: Successful completion of 36 credit hours in course work, including at least 18 hours in seminar-level courses, plus a comprehensive written examination over a designated body of literature or language prepared and judged by a faculty committee.

The following English seminars vary in emphasis and may be repeated for credit: English 8060, 8080, 8090, 8100, 8130, 8200, 8960 and 9120.

With approval of a student's adviser and the English Graduate Program Committee, a student may include a minor or course work from another related discipline or disciplines as part of the Plan of Study. For Plan A (thesis) a minor is six hours; for Plan B (non-thesis) a minor is nine hours. The maximum amount of course work which may be applied from another discipline or disciplines is the same as that for a minor for Plan A (six hours) or Plan B (nine hours).

The English Department offers a Certificate in Teaching English as a Second Language: requirements include 12 hours of specified course work, a foreign language, and a specified level of competency in English.

Course Descriptions

4180/8188 Chicano Literature and Culture (3) A study of representative works of Mexican-American, Spanish-American, and American writers, along with their cultural and historical antecedents. Prereq: Graduate, permission. (Same as SPAN 4180/8188)

4250/8256 Introduction to Women's Studies in Literature (3) A critical study of literature by and about women in which students learn about contributions of women to literature, ask what literature reveals about the identity and roles of women in various contexts, and evaluate standard interpretations from the perspectives of current research and individual experience. Prereq: Graduate.

4252/8256 Middle English Literature (3) A survey of the principal writings in Middle English, including those of Chaucer, from 1100 to 1500. Prereq: Graduate.

4330/8336 Sixteenth Century Literature (3) Poetry and prose of the English Renaissance, from its continental origins to the end of the Elizabethan age. Prereq: Graduate.

4340/8346 Chaucer (3) A literary, linguistic and historical study of the works of Geoffrey Chaucer; his dream visions, Troilus and Criseyde and the Canterbury Tales. Prereq: Graduate.

4430/8436 Seventeenth Century Literature (3) A study of the English poetry and prose from 1600 to 1700 including such authors as John Donne, Ben Jonson, Sir Francis Bacon, Sir Thomas Brown and John Milton. Prereq: Graduate.

4500/8506 Shakespeare's Contemporaries (3) A study of the development of the English drama, exclusive of Shakespeare, from the beginning to 1642. Prereq: Graduate.

4580/8586 Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation and acquisition as well as semantics, lexicography and foreign language learning. Prereq: Graduate.

4600/8606 Introduction to Women's Studies in English Literature (3) A critical study of selected comedies, histories and tragedies by Shakespeare. Prereq: Graduate.

4620/8626 Restoration and Eighteenth Century Literature (3) Poetry, prose (exclusive of the novel) and drama of England in the Restoration and 18th century (1660-1800), with emphasis on Swift and Johnson. Prereq: Graduate.

4640/8646 The Eighteenth Century English Novel (3) Readings in the English novel from Daniel DeFoe to Jane Austen. Prereq: Graduate.

4650/8656 The Nineteenth Century English Novel (3) Readings in the English novel from Jane Austen to Thomas Hardy. Prereq: Graduate.

4660/8666 The Twentieth Century English Novel (3) Readings in the English novel from Joseph Conrad to the present. Prereq: Graduate.

4680/8686 History of English (3) A study of the structural development of the English language. Prereq: Graduate, ENGL 4500/6500 or permission.

4700/8706 The Modern Familiar Essay (3) A study of the modern familiar essay, with an emphasis on writing the informal essay. Prereq: Any of the following: ENGL 2300, 2340, 2000.

4750/8756 Rhetoric (3) A study of contemporary theories of invention, form and style and their application in written discourse, with special emphasis on such contemporary rhetoricians as Kenneth Burke, Ross Winterowd, Edward P. Corbett, Francis Christensen and others. Prereq: Graduate.

4750/8756 Composition Theory and Practice (3) Students will review and evaluate 20th-century theories with an emphasis on theories developed between 1961 and 1990. Students will investigate current research practices and design research projects that they will implement in small groups. Prereq: ENGL 4500 and any 2000 or above writing course or permission.

4780/8786 Structure of English (3) A study of the phonology, morphology and syntax of English as seen by the traditional, structural and transformational-generative theories of language description. Prereq: Graduate, ENGL 4580 or permission.

4810/8816 Literature of the Romantic Period (3) Poetry and prose (excluding the novel) of England from 1800 to 1830. Prereq: Graduate.

4820/8826 Literature of the Victorian Period (3) English poetry and prose (excluding the novel) from 1830 to 1900. Prereq: Graduate.

4850/8856 Twentieth Century English Literature (3) Readings in English literature from Shaw and Yeats to the present. Prereq: Graduate.

4880/8886 Linguistic Variation (3) The methods and results of linguistic geography, sociological dialectology and modern variation studies with emphasis on American English in the community and the classroom. Prereq: Graduate, ENGL 4560/6560 or permission.

4910/8916 Contemporary Poetry of England and America (3) A study of English and American poetry, the important ideas it contains, and the relevant critical theory of the contemporary period. Prereq: Graduate.

4930/8936 American Poetry (3) The practice and theory of American poetry from the colonial period up to the contemporary period. Prereq: Graduate.

4940/8946 Studies in Language and Literature (3) Specific subjects (when offered) appear in class schedules. Complete syllabus available in English Department. Prereq: Graduate.
4950/8956 Contemporary Literature: Major Figures and Major Movements (3) A critical study of selected major literary figures or major literary movements which have appeared since World War II. Prereq: Graduate.

4960/8966 Studies in Linguistics (3) Studies in a selected subfield or problem area of linguistics such as sociolinguistics, generative semantics, applied linguistics, descriptive linguistics, teaching English as a foreign language, etc. Prereq: Graduate, ENGL 4580/6586 and permission of instructor.

4970/8976 The American Novel (3) A critical and historical study of the work of 12 or more significant American novelists of the 19th and 20th centuries. Prereq: Graduate.

4980/8986 The American Drama (3) A study of the American drama and its theatrical background from the beginning to the present day, with concentration on the drama of the 20th century. Prereq: Graduate.

8000 Workshop In Tom Stoppard's Plays (3) A study in both the theory and practice of selected plays by contemporary British playwright, Tom Stoppard. An informal workshop approach requiring active participation in class activities which include assembling a portfolio and presenting a reader's theater production of one play. Prereq: Graduate.

8010 Introduction to Literary Research (3) A survey of the resources, methodologies and protocol for conducting and reporting the results of research appropriate to graduate-level study in English and its related disciplines. Prereq: Graduate.

8040 Seminar: Literary Criticism (3) Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, 19th century England and 20th century America. Prereq: Graduate.

8060 Seminar: American Literature (3) Individual research and group discussion relating to a general topic in American literature. (The course may be repeated for additional credits under different topics.) Prereq: Graduate.

8080 Seminar in the English Renaissance (3) A seminar in a few significant literary figures of the English Renaissance. Prereq: Graduate.

8090 Seminar: The Restoration and Eighteenth Century (3) A detailed study of selected English authors and works of the Restoration and the 18th century (1660-1800). Prereq: Graduate.

8100 Seminar: Victorian Literature (3) An intensive study of selected Victorian authors and their works. Prereq: Graduate.

8130 Topical Seminar in English (3) An intensive study of one or more authors, genres, literary movements or literary problems not covered by regular period or genre courses. (This course may be repeated for additional credits under different topics.) Prereq: Graduate.

8140 Seminar: John Milton (3) Intensive seminar in the major works of John Milton and investigation of specific critical and scholarly problems. Prereq: Graduate.

8200 Seminar in Middle English Literature (3) A study of selected writings in Middle English. Prereq: Graduate and one course in Middle English language or literature.

8250 Seminar in Chaucer (3) A study of selected works of Geoffrey Chaucer. Prereq: Graduate and one course in Middle English literature or literature of the Renaissance.

8356 Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of cultural, subcultural, ethnic, and racial misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural, subcultural, ethnic, and racial situations. Prereq: Graduate.

8880 Advanced Placement Institute: English and Compositions (3) An intensive workshop devoted to the organization, planning, implementation and improvement of advanced placement courses in literature and composition. Intended for secondary school teachers of English who are presently teaching or are planning to propose and/or teach advanced placement courses in their school. Prereq: Graduate in English or in English education.

8900 Seminar: Theodore Roethke's Poetry A study of the poetry of Theodore Roethke as well as his notebooks, poetic theories, poetic practices, revisions, and biography where appropriate to an understanding of the poetry. Prereq: Graduate.

8920 Seminar in Contemporary American Poetry (3) A study of the work of selected contemporary American poets, especially the technical aspects of the poetry. Texts usually will be a full single volume of each poet or in some cases the selected or collected works of a poet. Prereq: Graduate.

8980 Independent Study (1, 2, or 3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the graduate faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit once. Prereq: Graduate, permission of instructor, admission to candidacy, and no "incompletes" outstanding.

8990 Thesis (3-6) Independent research project written under the supervision of an adviser. Prereq: Graduate, permission of thesis director.

9120 Seminar: Shakespeare (3) Critical analysis of ten tragedies, ten histories or ten comedies of Shakespeare. Prereq: Graduate.
GEOGRAPHY

PROFESSORS:
Gildersleeve, Shroder

ASSOCIATE PROFESSORS:
Engelmann, Maher, Peake, M. P., Peterson

ASSISTANT PROFESSOR:
Shuster

Master of Arts
The Master of Arts degree in Geography offered by the Department of Geography-Geology requires a minimum of 24 semester hours of approved graduate work in geography or related disciplines, plus six semester hours of thesis for a total of 30 semester hours.

One course is required: GEOG 8000 History and Philosophy. Two additional courses, GEOG 8026 Quantitative Methods and GEOG 8500 Research Methods, may be required depending upon previous course work and initiative in beginning work on the thesis. Students are expected to attend General Seminar. The remainder of the program consists of courses scheduled by the student with the advice of the Graduate Program Committee. At least one-half of all course work must be in "0"-level courses. All students must take a diagnostic written examination prior to undertaking course work. Procedures for examinations and theses are outlined in the Geography Graduate Student Handbook.

Admission Requirements
In addition to the requirements of the Graduate College, an applicant for admission to the Master of Arts degree program in geography must:

1. submit two letters of recommendation and a letter of intent to the Geography Department;
2. present as a prerequisite a minimum of 15 undergraduate semester hours of geography including physical and human geography and cartography, plus at least three hours in spatial analysis, quantitative methods or statistics; and
3. have a GPA in geography of at least 3.0 on a 4.0 scale.

Applicants are advised to include computer science in their program of study.

Course Descriptions
4010/8016 Conservation of Natural Resources (3) A study of conservation techniques and problems with particular emphasis on the United States. Includes philosophical and economic aspects of resource management and a systematic survey of traditional conservation types including soils, forest, water resources and energy. Prereq: Three hours of geography.
4020/8026 Quantitative Methods in Geography (3) An introduction to data manipulation and database management of geographic information. Topics include cartographic data input, storage, maintenance, analysis, retrieval and display. Current geographic information systems are examined. Particular attention is given to the combination of remote sensing imagery and cartographic data base. Prereq: GEOG 3530 or 4630/8636 and GEOG 3510 or its equivalent.
8500 Special Topics in Geography (1-3) This course will provide for an in-depth study of a geographic or geological subject (as specified in the course subtitle). Subjects will be offered as sections of GEOG 8500, but will be separate from one another. Students may repeat GEOG 8500 as often as they like as long as no specific subject is duplicated. Course to be offered with approval of Graduate Program Committee and Dean for Graduate Studies. Prereq: Variable.

4050/8056 Geographic Information Systems (3) An introduction to data manipulation and database management of geographic information. Topics include cartographic data input, storage, maintenance, analysis, retrieval and display. Current geographic information systems are examined. Particular attention is given to the combination of remote sensing imagery and cartographic data base. Prereq: GEOG 3530 or 4630/8636 and GEOG 3510 or its equivalent.
4100/8106 Biogeography (3) This course is intended as an introduction to biogeography, the study of the distribution of organisms in space and time. Prereq: BIDL 1750 or GEOG/GEOL 3100 or BIDL 3100, graduate. (Same as BIDL 4100/8106)
4120/8126 Urban Geography (3) A geography of the city from the viewpoint of history, site and situation, external relations, internal relations, and the comparative study of cities.
4140/8146 Urban Sociology (3) Examines urban theoretical perspectives, urbanization processes, the diversity of metropolitan communities, urban stratiﬁcation, metropolitan growth, urban neighborhoods, community power and urban policy and planning. Prereq: Permission. (Same as ASC 4140/8146)
4160/8166 The American Urban Landscape (3) Investigation of the morphological and architectural character of the American city as a cultural form. Emphasis is placed on the evolution of urban form and land use patterns and on the development of structures that comprise the building fabric of the chyscape. Prereq: Graduate.
4230/8236 Great Plains and Nebraska (3) A study of the major physical and cultural attributes of the region. Emphasizes settlement history and the role of agriculture on the regional economy.
4250/8256 Landform Studies: Theory and Structural Geomorphology (3) Primarily a lecture course with emphasis on the historical development of theories in evolution of earth surface features and processes, coupled with underlying structural controls of landforms.
4270/8276 Climatology (3) A study of climatic processes and their effect on shaping the physical landscape. Emphasis on physical and applied aspects of the field. Prereq: GEOG 1060 or 3510.
4330/8336 Soils Genesis, Morphology and Classiﬁcation (3) This course is designed to familiarize students with soil genesis, morphology and classification. The course focuses on relationships between soils and environmental factors, especially climate and vegetation. Soil-landform relationships also are examined. Prereq: GEOG 1030 or 1070 or 1170; junior or permission of instructor.
4530/8536 Historical Geography of the United States (3) An analysis of historical circumstances behind contemporary patterns of American cultural geography. Prereq: Graduate and HIST 1110 and 1120 or GEOG 1020 or 3330.
4610/8616 Field Methods in Geography and Geology (3) A systematic investigation in lecture and field of techniques for studying and analyzing rock and terrain features, land-use characteristics and the nature of their patterns as a part of the whole geographic and geologic environment. The course is organized to accommodate a variable needs of students with different backgrounds and career choices. Prereq: Permission.
4630/8636 Environmental Remote Sensing (3) Analysis of various sensor systems ranging from conventional low-altitude aerial photography through imagery obtained from earth-orbital platforms such as "Landsat" with emphasis on practical application. Provides basic tools for environmental evaluation.
4800 History and Philosophy of Geography (3) Introduction to history of geography. Emphasis on significant ideas, concepts, methodologies and philosophies in geography from classical Greeks to present. Prereq: Permission.
5040 Seminar in Educational Geography (3) A survey of methods, instruction aids and goals for teaching geography. Designed to aid the teacher in the improvement of geographic instruction in elementary and secondary schools as well as in higher education. Prereq: Permission.
5210 Seminar in Cultural Geography (3) The philosophy of cultural and historical geography with emphasis on describing and interpreting the cultural landscape. Prereq: Permission.
8310 Geography of Agriculture (3) A systematic study of the characteristics and patterns of world agriculture. Prereq: Permission.
8500 Special Topics in Geography (1-3) This course will provide for an in-depth study of a geographic or geological subject (as specified in the course subtitle). Subjects will be offered as sections of GEOG 8500, but will be separate from one another. Students may repeat GEOG 8500 as often as they like as long as no specific subject is duplicated. Course to be offered with approval of Graduate Program Committee and Dean for Graduate Studies. Prereq: Variable.
8510 Advanced Geomorphology (3) A seminar and lecture course on the current concepts and literature 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. Prereq: GEOG 8256 or 8266 and 1170 or 1070. Permission.

8580 Salta (3) 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. Prereq: GEOG 1060 or 1070 and permission.

8600 Independent Research (1-3) Advanced study in the form of a major research project. Students are required to submit a written proposal and gain written approval of the supervising faculty member and Graduate Program Committee. In addition to a formal written report, the student is required to make an oral presentation of research results to General Seminar or a professional meeting. Prereq: Fifteen graduate hours in geography and permission.

8640 Remote Sensing: Advanced Concepts and Applications (3) Designed for the graduate student desiring to do advanced work in remote sensing. The emphasis of the course is on non-photographic sensors and especially digital processing of multispectral satellite data. The applications are multidisciplinary in nature. Prereq: GEOG 4630/8636.

8650 Land Use (3) 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 field investigations in the urban area, with the functional region receiving the major consideration. Prereq: GEOG 4120/8126.

8670 Cartographic Methods (3) Teaches effective map layout and the latest cartographic techniques, leading to a high level of competence in the design and interpretation of maps.

8800 Internship In Environmental/Regional Planning (1-6) (repeatable up to six hours) Internship with local planning agencies enabling students to gain knowledge and experience in comprehensive regional or environmental planning. Prereq: Permission and 12 graduate hours in geography.

8810 Seminar in Metropolitan Planning (3) An overview of metropolitan planning with special emphasis on the planning process and current problems. Prereq: Permission. (Same as PA 8810)

8830-8840 Interdisciplinary Seminar on the Urban Community (2-6) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus. Prereq: Undergraduate major in one of the social sciences and six hours of graduate work in one of the social sciences. (Same as PSCI 8830-8840, SOC 8830-8840)

8990 Thesis (1-6) Independent research project written under the supervision of an adviser.

9550 Topics In Regional Geomorphology of North America (3) A seminar on the landforms of a particular area from the perspective of a particular geomorphic process. Writing of research grant proposals emphasized as well. Prereq: Permission.
GERONTOLOGY

PROFESSORS:
Horacek, Missinne, Thorson, Waskel

ASSOCIATE PROFESSOR:
Powell

Master of Arts In Social Gerontology
The M.A. in Social Gerontology is designed to help meet the educational needs of two principal groups. First, the degree program is designed for those who are mid-career professionals who wish to gain additional knowledge and insight from the research in the field of gerontology, to interpret the research critically, and who may wish to be prepared to conduct research on their own. A second, smaller group that may benefit from the program consists of those who have gerontology as a primary academic interest and who intend to continue on in pursuit of a doctoral degree.

Potential applicants should recognize that the M.A. in Social Gerontology is not intended to be a practitioner's degree. Those who seek graduate preparation for entering the field of aging in a service capacity might wish to earn the Graduate Certificate in Gerontology in conjunction with a Master's degree in Social Work, Counseling, Public Administration, Health Education or other field of practice. Such career preparation would probably offer more employment opportunities for the entry-level professional.

Degree Requirements
The program of study for the M.A. includes at least 36 semester hours of course work, including:

1. A minimum of 18 hours of gerontology course work including: 9110 Applied Social Gerontology; 9460 Aging and Human Behavior; 8676 Programs and Services; and 8940 Practicum. (For some students, the Practicum requirement might be waived in favor of an Independent research project prior to thesis work.)
2. Six to 12 hours of course work in a related area such as administration, counseling, education, or program planning and evaluation.
3. A minimum of six hours of research courses including a methodology course and a statistics or computer applications course.
4. A written comprehensive examination upon completion of course work.
5. Six hours of GERO 8990 Thesis.

Admission
The general prerequisite for admission is a Bachelor of Arts or Bachelor of Science degree. The student must have achieved a grade point average of at least 3.0 for either the full undergraduate program or for upper division course work. The student must submit an official copy of current Graduate Record Examination scores at the time of application, with a combined score of at least 1000 on the Verbal and Quantitative sections of the GRE. In addition, the student must submit a completed Information Form for the M.A. in Social Gerontology, a writing sample, and two letters of reference. After all application materials have been received, an individual interview will be held with members of the Gerontology Graduate Program Committee.

NOTE: At least one-half the hours on a plan of study must be in courses which are restricted to graduate students only (9-0 or 9—0).

Certificate in Gerontology
In addition to the Master of Arts in Gerontology, a Certificate of Specialization in Gerontology is available. The Board of Regents has established a Certificate in Gerontology that will be awarded upon completion of requirements for the Specialization. The Specialization may serve as an academic minor for students majoring in many of the social and behavior sciences at the graduate level.

Requirements
1. Students wishing to work toward the certificate in Gerontology must make application and be accepted into the Department of Gerontology; application also must be made for admission to Graduate Studies. Those working toward a graduate degree also must be accepted into the degree program of their major department.
2. Course work requirements consist of a minimum of 15 semester hours in Gerontology. The only required course is GERO 9110 Applied Social Gerontology (three semester hours); the other 12 hours (usually four graduate-level courses) in Gerontology are selected by the student in consultation with the Academic Coordinator of the Gerontology Program. In this manner, individualized programs of study are developed for each student to best meet his or her career goals and interests.
3. A one semester full-time practicum or its equivalent also is required. The goal of this is to give each student practical one-on-one experience with the aged in a service program or agency delivering services to the elderly. Practicum students must register for GERO 8940 Practicum and participate in periodic seminars with the Practicum supervisor of the Department of Gerontology.

Example of a Program of Study for the Certificate
Each individual program of study will be tailored to the needs and interests of each student. The following is an example of what one program of study might look like:

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<td>GERO 8466</td>
<td>Aging and Human Behavior</td>
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<td>GERO 8986</td>
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Course Descriptions

4100/8100 Educational Gerontology (3) An introduction to the field of education for and about the aging. The institutions and processes of education will be analyzed to determine their relationships and value in persons who are now old and those who are aging.

4350/8356 Issues in Aging (3) This course is intended for students in gerontology and in other fields who are interested in a humanistic approach to understanding significant issues which affect the lives of older people. Prereq: Graduate.

4420/8426 Therapeutic Recreation Intervention and the Aging (3) This course introduces the student to the field of recreation for the aging in nursing homes and community-based recreation programs. A portion of the course involves students visiting recreation sites. Prereq: GER0 2000, RES 5330, or permission. (Same as RES 4500/8506)

4460/8466 Aging and Human Behavior (3) The course examines different kinds of behavior and the changes which may occur in older age. Applications of various personality theories concerning aging will be considered. Prereq: Three hours gerontology or permission.

4480/8486 Comparative Gerontology (3) The study of aging around the world by a comparative method in a cross-cultural and cross-national framework. An explanation of some practical experiences and developments in Europe, Asia and Africa will be examined. Prereq: Three hours gerontology or permission.

4500/8506 Legal Aspects of Aging (3) Consideration of the legal concerns which are likely to arise as people age. Includes introduction to American legal system, and emphasis on underlying legal concepts and issues of special importance to older persons. Prereq: GER0 4110/8110. (Same as HED 4500/8506)

4510/8516 Long-Term Care Administration (3) An investigation of the broad range of policy issues, theoretical concepts and practical management strategies influencing the design, organization and delivery of long-term care services. Prereq: GER0 9110. (Same as RA 8516)

4520/8526 Mental Health and Aging (3) An examination of mental health problems that are particular to older people. Prereq: Permission.

4550/8556 Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders. (Same as HED 4550/8556)

4570/8576 Disorders of Communication in Older People (3) This course is designed to familiarize the student with the identification and symptomology, basic assessment and intervention strategies associated with disorders of communication affecting older adults and geriatric patients. It is beneficial to students majoring in gerontology or speech pathology, as an enrichment course for persons working in these or related fields. Students are assigned contacts with and written reports of contacts with an older adult who manifests a disorder of communication. Prereq: GER0 4500/8506 or permission.

4670/8676 Programs and Services for the Elderly (3) This course is provided to give the student a historical overview of programs for the elderly; examine the national policy process as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. Prereq: Three hours gerontology.

4690/8690 Working with Minority Elderly (3) This course is an interdisciplinary one, designed to provide the student with knowledge of the differing status, attitudes and experiences of the elderly within four major minority groupings and to examine various service systems and practice models in terms of their relevance and effectiveness in meeting needs of the minority elderly. Prereq: Senior or graduate in gerontology or social work or permission of instructor. (Same as SWK 4690/8690)

4750/8756 Mid-Life, Career Change, and Pre-Retirement (3) An examination of mid-life as it applies to the concept of secondary careers, existing resources and the future of second careers; and the concept and practical implications of pre-retirement planning. Prereq: None. (Same as COUN 4750/8756)

4850/8856 Hospice and Other Services for the Dying Patient/Family (3) This course is designed to involve students in the recognition of fears, concerns and needs of dying patients and their families by examining the hospice concept and other services available in our community. Factual information, readings, professional presentations, films and experiential exercises are offered to aid the student in understanding that hospice is an alternative to the traditional medical model so that when the "cure" system is no longer functional, then the "care" system, hospice, can be offered. Prereq: GER0 8730 or permission. (Same as SWK 4850/8856)

4860/8866 Hospice and Other Services for the Dying Patient/Family (3) This course is designed to involve students in the recognition of fears, concerns and needs of dying patients and their families by examining the hospice concept and other services available in our community. Factual information, readings, professional presentations, films and experiential exercises are offered to aid the student in understanding that hospice is an alternative to the traditional medical model so that when the "cure" system is no longer functional, then the "care" system, hospice, can be offered. Prereq: GER0 8730 or permission. (Same as SWK 4860/8866)

4900/8906 Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for application in gerontology. Prereq: Permission of instructor.

4920 Counseling Older Adults and Their Families (2) A study of issues related to the counseling of older adults and their families. Prereq: COUN 2640 or permission. (Same as COUN 8280)

4930 Thanatology: Study of Death (3) An examination of theory and research relevant to interaction with the older, terminally ill person, focusing on communication with widows and other survivors as well as the dying patient. Prereq: Graduate, three hours of gerontology, permission.

4950/8956 Counseling Skills in Gerontology (3) A study of recent and current literature on counseling with older people. Prereq: GER0 8986 or COUN 8986, counseling major, or permission.

4970 Personal Values and Aging (1) Course designed to increase students' self-awareness of personal values and feelings related to aging and the aged.

4980 Thesis (1-6) Independent research project required of all students working toward the Master of Arts degree. The thesis is written under the supervision of the thesis adviser and the thesis committee. Prereq: Permission.

4990 Graduate Seminar In Statistical Applications (3) Provides a grounding in statistical methods and data management used in behavioral research, with an emphasis on special research issues with older populations. Prereq: GER0 9110 and a research methods course.

9110 Applied Social Gerontology (3) An overview of social gerontology with an emphasis on the interplay between social, psychological and physical elements in later life. Restricted to graduate students only; required of Gerontology students. Prereq: Graduate. (Same as SOC 9110)

9460 Seminar in Aging and Human Behavior (3) An in-depth study of sexual, religious and love behavior in older people. This seminar is intended to explain the interaction between these different aspects of behavior and the meaning of life and suffering connected with it in older age. Prereq: Graduate or permission of instructor.

9480 Geropsychology (3) To become familiar with the psychology of aging from a research perspective. The focus will be on psychological research in the middle years and in later years. Prereq: Twelve hours of psychology and/or gerontology or permission. (Same as PSYCH 4890)

9560 Seminar: The Older Woman (3) This course is designed to provide students with a critical understanding of older women. Primary focus will be directed towards an exploration of lifestyles, needs and interests of women in the later half of life. Reading and discussion of current literature will provide a basis for continued exploration through the preparation, administration and analysis of a group research project. Prereq: GER0 9110 or permission of instructor.
HEALTH, PHYSICAL EDUCATION AND RECREATION

PROFESSORS:
Berg, Corbin, Flynn, Kidd, Matal-Corbin

ASSOCIATE PROFESSORS:
Blanke, Brasile, Greer, Hautala, Latin, Lundahl, Stacy, Stewart

ASSISTANT PROFESSOR:
Thigpen

The School of Health, Physical Education and Recreation offers graduate courses in the areas of health education, physical education, and recreation and leisure studies. It is possible to attain either a Master of Arts or a Master of Science degree with a major in one of the following areas: health education, physical education (physical education pedagogy, physical education coaching, exercise science without an internship, exercise science with an internship and fitness management) and recreation and leisure studies (administration/management and recreation therapy).

The Master of Arts degree, which does not require a thesis, requires a minimum of 36 semester hours. Students desiring the Master of Science degree will complete a program of at least 30 semester hours, six hours of which will be devoted to a thesis.

Master of Arts and Master of Science

Core Course (3 hours)
HPER 8030 Research in HPER

Specialization Courses (12-24 hours)
HPER 8000 Special Studies
HPER 8100 Research Project
HPER 8220 Problems and Issues in HPER
HPER 8300 Analysis of Research and Literature in HPER
HED 8080 Topics in Health Education
HED 8266 Health Promotion at the Worksite
HED 8250 Human Sexuality
HED 8330 Alcohol Education
HED 8556 Health Aspects of Aging
HED 8600 Health Behavior
HED 8730 Thanatology
HED 8850 Health Aspects of Stress Management
HED 8990 Health Education Practicum
PE 8016 Laboratory Methods in Exercise Science
PE 8020 Analytical Research Methods in Physical Education
PE 8076 Optimizing Sports Performance
PE 8176 Motor Assessment and Performance
PE 8186 Practicum in Physical Education for the Disabled Child
PE 8240 Sport in American Culture
PE 8260 Supervision of Physical Education
PE 8280 Curriculum in Physical Education
PE 8370 Improvement of Instruction in Physical Education
PE 8400 Motor Learning and Performance
PE 8450 Kinesiological Analysis of Motor Skills
PE 8506 Behavioral Aspects of Coaching Athletics
PE 8845 Survey of Microcomputer Applications in Health, Physical Education and Recreation
PE 8856 Cardiac Rehabilitation Principles and Practices
PE 8865 Scientific Aspects of Strength Development
PE 8896 Behavioral Aspects of Coaching
PE 8910 Internship in Exercise Science
PE 8936 Measurement and Evaluation in Physical Education
PE 8946 Physiology of Exercise
PE 8950 Advanced Exercise Physiology
PE 8966 Topics in Sports Medicine
RLS 8000 Special Studies in Recreation and Leisure Studies
RLS 8050 Seminar in Therapeutic Recreation
RLS 8240 Recreation Administration I
RLS 8300 Recreation Programming and Leadership
RLS 8340 Recreation Administration II
RLS 8420 Leisure Play and Human Development
RLS 8526 Therapeutic Recreation Intervention for the Aging
RLS 8538 Recreation and Sports Opportunities for the Physically Disabled
RLS 8560 Clinical Internship in Recreation Therapy
RLS 8616 TR: Process and Procedure
RLS 8638 TR: Intervention and Facilitation Techniques
RLS 8646 Trends and Issues in Recreation Therapy

Course Descriptions

General HPER
8000 Special Studies (1-3) A series of intensive courses - scheduled as regular seminars or workshops according to purpose. Prereq: Permission of department.
8030 Research in Health, Physical Education and Recreation (3) The course deals with scientific writing, research techniques, statistics, computer application, and quantitative research design and technique. Considerable emphasis is placed on evaluation of research in scholarly publications. A research proposal is written as one of the course requirements. Prereq: Graduate student in HPER.
8100 Research Project (1-3) Individual or group study and analysis of specific problems in health, physical education or recreation. Prereq: Permission of Instructor.
8220 Problems and Issues in HPER (3) An examination of current problems and issues in HPER that relate to the general aims and purposes of HPER. Prereq: Graduate.
8300 Analysis of Research and Literature in HPER (3) Survey of research and literature in HPER for the purpose of orienting the student to possible areas of research and developing an understanding of and appreciation for writings in HPER.
8990 Thesis (1-6) Independent research project written under the supervision of an adviser. Prereq: Permission.

Health Education
4200/8206 Health Promotion at the Worksite (3) A study of the practice of health promotion in the workplace. Principles of sound program planning, implementation and management will be explored. The student will study on-the-job health promotion in relation to cost analysis, health behavior, program content, the insurance industry and program evaluation.
4550/8556 Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging; with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: Graduate.
8600 Topics In Health Education (3) This course will explore important current issues in Health Education. Students will examine normative, political, ethical and technological developments that affect the practice of Health Education. There is no limit to the number of times a student may enroll in HED 8600 as long as a different topic is offered each time. Prereq: Graduate.

8250 Human Sexuality (3) This graduate-level course is aimed at providing an overview of the current scientific knowledge concerning human sexuality. The course is designed to be interdisciplinary in nature, providing the biological, behavioral and cultural aspects of human sexuality. Prioritization will be given to students from other related disciplines who have permission of instructor.

8730 Alcohol Education (3) A study of the problems associated with alcohol use, misuse and abuse. The patterns and trends of use, theories of dependence, pharmacological aspects and health consequences are explored. Emphasis is given to techniques for alcohol education and prevention of alcohol problems in various settings, i.e., schools, worksites, public and voluntary health agencies.

8806 Health Behavior (3) The purpose of this course is to study the theoretical foundations of health behavior. Students will develop an understanding of the determinants of health behavior, the models and theories that provide a framework for predicting health behavior, and the strategies employed to bring about behavioral changes for health and disease prevention in individuals and groups. Prereq: Graduate.

8730 Thanatology (3) An examination of theory and research relevant to the terminally ill person, focusing on communication with the dying person. Prereq: None. (Same as CIER 500)

8850 Health Aspects of Stress Management (3) The health-related aspects of stress management and control will be the focus of this course. Selected techniques for self-regulating stress will be demonstrated, practiced and analyzed. Students will be introduced to current scientific research in human stress. Prereq: Graduate.

9880 Health Education Practicum (1-3) This course offers graduate students in health education an opportunity to gain practical, on-the-job training in health promotion/health education in local schools, businesses, hospitals, clinics, voluntary health agencies or governmental health agencies. Prereq: Twenty-one credit hours in health education (graduate or undergraduate).

Physical Education
3810/8845 Survey of Microcomputer Applications in Health, Physical Education & Recreation (3) This course is designed for students in Health, Physical Education and Recreation who have little or no previous experience with microcomputers. This course is oriented toward the application of computer technology within these fields. Prereq: None.

3860/8865 Scientific Aspects of Strength Development (3) This course is designed to explore the nature of muscular strength development, to investigate the physiological basis of physical conditioning, and to provide students with practical experiences in the supervision of human beings in the design and utilization of specialized conditioning programs for a variety of sports. Prereq: None.

4010/8816 Laboratory Methods in Exercise Science (3) This course will provide students with an opportunity to achieve competency in operating various pieces of equipment typically used in biomechanics and exercise physiology laboratories. The student will gain experience in interpreting the results of the tests administered and writing exercise prescriptions based upon those results. Prereq: Permission of Instructor.

4070/8876 Optimizing Sports Performance (3) The course is designed for coaches, athletes and physically active people, and allied health professionals. Course content focuses on practice and skill perfection and on the selection and supervision of training programs in physical activity, with emphasis on the use of time, space, equipment, and facilities. Prereq: None.

4170/88176 Motor Assessment and Prescription (3) A survey of motor fitness assessment instruments for use with pre-school, elementary and secondary school students. The use of test scores for diagnosis and prescription of physical education activities for special populations will be addressed. Prereq: 4120.

4180/88188 Practicum In Physical Education for the Disabled Child (3) This course is designed as a practicum to provide the physical education pedagogy major or special education major enrolled in the Adapted Physical Education endorsement program with theoretical and practical experience in addressing the motor needs of young disabled children in a physical education setting. Prereq: PE 4170/88176 and permission of Instructor.

4500/8508 Behavioral Aspects of Coaching Athletes (3) This course is designed to provide the graduate physical education student an overview of the behavioral aspects of coaching athletes. The course will cover coaching as it affects skills, abilities and personalities of the elementary school, junior high school, high school, college and post-college athletes. Such personal factors as body build, intellectual attributes, emotions, competition, cooperation, morale, sportsmanship and leadership will be discussed in relation to the athlete. Prerequisites: The student must be in a coaching position.

4600/8605 Cardiovascular Rehabilitation Principles and Practices (3) The purpose of this course is to provide students with an introduction to the theories and practices involved in all phases of cardiovascular rehabilitation. Prereq: PE 2880, 4010/8816, 4940/8946.

4930/8938 Measurement and Evaluation of Physical Education (3) This course will cover the design, implementation and evaluation of measurement instruments used in physical education. Includes a review of basic descriptive statistics. Prereq: Permission of Instructor.

4940/8946 Physiology of Exercise (3) A study of the major physiological systems of the human body in relation to exercise and the exercise programs. Includes application of physiological concepts to practical training and conditioning. Prereq: Graduate.

4980/8986 Topics In Sports Medicine (3) This course covers selected topics regarding the science and medicine of sports participation. Students will be introduced to the principles of exercise science, prevention and rehabilitation, pediatric aspects, legal aspects and aging. Prereq: Basic course in human anatomy, physiology, kinesiology, exercise physiology, psychology and growth and development or permission of instructor.

4920 Analytical Research Methods in Physical Education (3) This course will be a study of the analytical methods commonly used in descriptive and experimental research in the discipline of physical education. There will be an emphasis on statistical application, particularly the purpose, selection and interpretation of procedures. Statistical computer packages will be used.

4240 Sport in American Culture (3) The course is a study of sport and the ways in which it influence people in America.

4250 Supervision of Physical Education (3) Concepts, principles, organization and techniques of supervision and evaluation of the curricular and administrative aspects of programs and practices in physical education and sports.

4280 Curriculum in Physical Education (3) A study of the foundations for the construction and supervision of programs in physical education and sport. Current trends, content, and methods utilized within physical education and sport will be examined. Students will gain experience in interpreting the results of the tests administered and writing exercise prescriptions based upon those results. Prereq: Permission of Instructor.

4370 Analyzing Physical Education Teaching and Sport Instruction (3) This course will examine instructional behavior and strategies in physical education and sport. Current trends, content, and methods utilized within physical education and sport will be examined. Students will gain experience in interpreting the results of the tests administered and writing exercise prescriptions based upon those results. Prereq: Permission of Instructor.

4400/8400 Motor Learning and Performance (3) A study of scientific and theoretical factors which influence the learning and performance of motor skills with particular attention being given to those skills and issues related to physical education teaching and coaching. Factors affecting the learning and retention of motor skills will be emphasized.

4450 Kinesiological Analysis of Motor Skills (3) An investigation of the biomechanical basis of motor performance. Includes a descriptive analysis of skills and fundamental movement patterns and an examination of techniques for collecting biomechanical data.

4910 Internship in Exercise Science (3) This course is an off-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in fitness development or health promotion. Prereq: The student must be in his/her last semester of course work and receive permission of internship coordinator.

4950 Advanced Exercise Physiology (3) This course is designed for students with an interest in exercise physiology. Major topics to be emphasized include: graded exercise testing and electrocardiography, kinetics of oxygen uptake, body composition, neuromuscular function and thermoregulation. Prereq: PE 4940 or equivalent.

Recreation and Leisure Studies
4240/8246 Recreation Administration I (3) Designed to provide a background of information on public, private and commercial recreation with special attention to organization, promotion, development from the administrative aspect. Prereq: At least nine hours of upper division courses in recreation or permission of Instructor.
4300/8306 Recreation Programming and Leadership (3) An advanced study of recreational programming and planning through practical applications. Emphasis is upon understanding proven programming and leadership knowledge and skills, understanding participant leisure behavior, understanding participant leisure needs, and skill development in ways through which organizations, agencies and businesses create service to respond to the leisure needs of the consumer. Prereq: Graduate and permission of Instructor for non-majors.

4340/8346 Recreation Administration II (3) This course is designed to follow Recreation Administration I with special emphasis on strategies and skills required for financial management (budget planning / management, fees, charges, and cost accounting) within the field of recreation, parks, recreation programs, and leisure services. Prereq: RLS 4240/8246 Recreation Administration I and senior.

4520/8526 Therapeutic Recreation Intervention for the Aging (3) The purpose of this course is to introduce the student to the field of recreation for the aging in nursing homes and community-based recreation programs. The concentration focuses on the aging and their needs, and how proper recreation programming can help them meet some of their needs. A portion of the course involves students being placed in site leadership. Prereq: RLS 3500 or GER0 2000, or permission of Instructor.

4530/8536 Recreation and Sport Opportunities for the Physically Disabled (3) An in-depth study of physical disabilities as related to the field of therapeutic recreation settings; includes services, implications of disability, self-help skills, wheelchair sports and activities, rule modifications in competitive sports, safety concerns, legislation and adaptive techniques. Prereq: RLS 3500 or permission.

4610/8616 TRT: Recreation Therapy Process and Procedures (3) This course is designed to examine, in-depth, the therapeutic recreation process, using a comprehensive and systematic TR service design. Prereq: RLS 3240, 3500, 4300.

4630/8636 TRT: Intervention and Facilitation (3) This course is designed to offer students a full range of intervention strategies and facilitation techniques specific to special populations. Prereq: RLS 3240, 3500, 4300.

4640/8646 Trends and Issues in Therapeutic Recreation (3) This course covers selected topics reflecting current trends and issues in the field of therapeutic recreation. Prereq: RLS 3240, 3500, 4300.

4640/8646 Trends and Issues in Recreation Therapy (3) This course covers selected topics reflecting current trends and issues in the field of therapeutic recreation. Prereq: RLS 3240, 3500, 4300.

4800 Special Studies In Recreation and Leisure Studies (1-3) A series of intensive courses especially designed for (1) practitioners within recreation, parks and leisure services and/or (2) student majors within recreation and leisure studies; scheduled as seminars or workshops, according to purpose. Prereq: Graduate.

8000 Seminar In Therapeutic Recreation (3) Seminars especially designed for therapeutic recreation majors within recreation and leisure studies; scheduled as seminars or workshops, according to purpose.

8420 Leisure, Play and Human Development (3) An examination of leisure and play as conditions of human development, reflections of human development, and as buffers for adjusting to age-related life events. These three foci will be considered in relationship to the entire life span, and implications will be drawn for recreation and leisure services. Prereq: Graduate.

8560 Clinical Internship In Therapy Recreation (6) This course is structured as a full-time (40 hrs/wk/15 wks) fieldwork experience in Therapeutic Recreation. The student works under the supervision of a certified Therapeutic Recreation Specialist in an agency/hospital/institution setting. The nature of the placement and make-up of the clients/patients will vary with each individual student's professional objectives. Prereq: At least three upper division undergraduate and/or three graduate courses in therapeutic recreation and permission of Instructor.

8600 Special Studies In Recreation and Leisure Studies (1-3) A series of intensive courses especially designed for (1) practitioners within recreation, parks and leisure services and/or (2) student majors within recreation and leisure studies; scheduled as seminars or workshops, according to purpose. Prereq: Graduate.
Selection of an Adviser and Admission to Candidacy

1. Upon completing 12 hours of graduate course work, every graduate student must select, from the members of the Graduate Faculty listed above, an adviser who will assume responsibility for supervising the student's program, until the thesis director takes charge.

2. The student's program will be set forth in the application for candidacy for the degree. All students must file their applications for candidacy following the completion of 12 hours of graduate work. Until candidacy is achieved, no credit toward an M.A. in history will be allowed for any course work beyond 12 hours, except for those earned concurrently.

M.A. Program with Thesis (30 hour program)

The 30 hour program offers two options:

1. 24 hours of graduate courses in history, nine of which must be in History 9100. At least three of the remaining 15 hours must be in History 9100 or History 8010. No student's program may include more than six hours of History 8010.

2. 15 hours of approved graduate courses in History including nine hours of History 9100, plus nine approved hours of graduate course work in a related field which will constitute a minor. Permission to take a graduate minor must be obtained from the student's adviser. The department in which the minor is planned must be consulted to determine the student's eligibility to do graduate work in that department. At least twelve of the total of 24 hours must be in courses open only to graduate students.

In either option, a thesis carrying six hours of credit is required. After completing 12 hours of graduate work, a student should be considering a prospective thesis topic, determining if the sources are available, and ascertaining which faculty member will direct it. The student should prepare a thesis proposal of six to ten pages. The proposal will address the tentative topical and chronological scope of the subject, provide a bibliography of essential primary and secondary material, and indicate a research plan. This proposal will be prepared with the assistance of the prospective thesis director.

M.A. Program without Thesis (36 hour program)

The 36 hour program offers two options:

1. 36 hours of graduate courses in history, at least half of which must be in courses open only to graduate students. No student's program may include more than six hours of History 8010.

2. 27 hours of history graduate courses, including at least nine hours of History 9100, plus nine approved hours of graduate course work in a related field which will constitute a minor. Permission to take such a minor shall be obtained from the student's adviser. The department in which the minor is planned must be consulted to determine the student's eligibility to do graduate work in that department. At least 18 of the total of 36 hours must be in courses open only to graduate students. No student's program may include more than six hours of History 8010.

All students electing the non-thesis 36 hour program are required to take a comprehensive examination, details of which may be obtained from the Graduate Program Committee Chair.
Note: Graduate course offerings are not extensive in the spring and fall semesters. Because seminars are central to the graduate experience, all students must place the highest priority upon seminar enrollments.

3130/8135 American Colonial History (3) A study of the background, settlement and development of the English colonies. Prereq: For 3130, junior or permission of instructor.

3160/8165 The American Frontier: 1600-1800 (3) The Trans-Mississippi west from Roan Mountain Fur Trade days to the disappearance of the frontier around 1800. Prereq: For 3160, junior or permission.

3330/8335 American Diplomatic History (3) A history of the foreign relations of the United States. Prereq: For 3330, junior or permission.

3410/8415 History of Nebraska (3) From the earliest known records to the present. Prereq: For 3410, junior or permission.

3440/8445 History of the South (3) Economic, social and political development of the south as a region. Prereq: For 3440, junior or permission.

3530/8535 Medieval Europe (3) An examination of medieval European history with emphasis upon social and economic developments. Prereq: For 3530, junior or permission.

3640/8645 History of the British Empire and Commonwealth (3) Britain in the 18th, 19th, and 20th centuries. Prereq: For 3640, junior or permission of instructor.

3710/8715 Europe and America in the Two World Wars (3) A military, social and political history analyzing the causes, conduct and consequences of each war, the war time transformation of European and American society, and the emergence of the United States as a world power. Prereq: For 3710; junior or permission of instructor.

4060/8066 History of Women in the United States (3) This course examines the history of women in 19th and 20th century America from the Seneca Falls convention to the present. It includes the study of feminist theorists and activists, female educational/professional and employment opportunities, current status of women and the Feminist movement of the 1970s. Prereq: For 4060; junior or permission of instructor.

4120/8126 American Social and Intellectual History Since 1865 (3) Primarily a non-political approach to American history, this course will examine significant topics in American thought and society. Prereq: For 4120; junior or permission of instructor.

4130/8135 The Revolutionary Era, 1763-1793 (3) An analysis of the internal and external forces which led to the revolution and an examination of the economic, social and political problems of the emerging nation. Prereq: For 4130; junior or permission of instructor.

4160/8166 The Federalist-Republican Period: 1789-1828 (3) An interpretive study of the middle period of American history. Prereq: For 4160; junior or permission of instructor.

4400/8406 History of North American Indians (3) A survey of traditional North American Indian cultures, their contact with transplanted European peoples, and the continuing problems faced today. Prereq: For 4400; junior or permission of instructor.
MATHEMATICS

PROFESSORS:
Downing, Gessaman, Konvalina, Maloney, Stephens

ASSOCIATE PROFESSORS:
From, Heidel, Liu

Master of Science
To obtain the Master of Science degree, the student must:
1. Earn a total of 36 acceptable credits, at least 24 of which must be in mathematics.
2. Choose mathematics courses with a number of 8000 or above and ending in the digit zero or six, excluding 8020 and 8040. At least 18 of these credit hours must be courses with a number ending in a zero digit with, at most, six of these 18 hours from 8970.
3. Maintain a "B" average in all coursework with no grade lower than a "C".
4. Up to 12 hours of graduate work may be taken in other areas related to mathematics, such as physics or computer science, with the permission of the Graduate Program Committee. Such work may not count toward the 18 hours described in "2." above.
5. Pass a written comprehensive examination based on three related courses (one of which must have a number ending in a zero digit) which consists of two parts. The first part is a 3-hour examination which may be open book. The second part is a one-week take-home examination. The examination is normally taken in the semester immediately preceding graduation and should be scheduled well in advance of the graduate college deadlines.

Master of Arts
To obtain the Master of Arts degree, the student must:
1. Earn a total of 30 credits in mathematics.
2. Complete a thesis of six semester hours, which may be applied towards the 30 hours total.
3. Choose mathematics courses with a number of 8000 or above and ending in the digit zero or six and excluding 8020 or 8040. At least 12 of these credit hours must be courses with a number ending in a zero digit, excluding 8970 and 8990.
4. Up to 12 hours of graduate work may be taken in other areas related to Mathematics, such as Physics of Computer Science, with the permission of the Graduate Program Committee. Such work may not count toward the 18 hours described in "2." above.
5. Maintain a "B" average in all coursework with no grade lower than a "C."
6. Pass a comprehensive exam based on the defense of the thesis.

Admission Requirements for the M.S. or M.A. Degrees
Admission to a degree program is based on evidence of ability to successfully complete the requirements for the program.
1. For unconditional admission with a concentration in Mathematics, an applicant should:
   a. Have completed a Bachelor's degree with an overall average of 3.0 or better.
   b. Have completed 15 credit hours of mathematics courses beyond calculus, including MATH 3230/6235 Introduction to Analysis or equivalent.

Master of Arts for Teachers of Mathematics (M.A.T.)
To obtain the M.A.T. degree, the student must complete 36 credits as follows:
1. Complete the following required Mathematics courses: MATH 8105, 8235, 8036, 8020 and 8040.
2. Complete three approved education courses for graduate students only (nine credits), one of which must involve the use of microcomputers in the classroom.
3. Complete one approved course for graduate students only (three credits) in Mathematics or Education.
4. Choose one of the following three options (nine credits):
   a. Statistics option: STAT 8005, 8015, MATH 8010.
   b. Mathematics option: three courses in mathematics with a number of 8000 or above, but excluding any one whose last digit is "5."
   c. Computer Science option: three courses in computer science with the number of 8000 or above.
5. Pass the M.A.T. comprehensive examination which is composed of two parts:
   a. The Mathematics part is four hours in length and covers the courses MATH 8105, 8235, 8036, 8020 and 8040. The examination consists of two questions from each of the five courses and the student is required to do eight of the 10 questions.
   b. The Education part of the examination is two hours in duration and covers all the education courses which the student has taken for the degree. A student must pass both parts in order to pass the examination.
Admission Requirements for M.A.T. Degree
A student meeting the following conditions may be admitted to the M.A.T. degree program:

1. Have taken CSCI 1610 or equivalent.
2. Hold state certification for teaching secondary school mathematics.
3. Have at least a "B" average in previous mathematics courses, including two courses beyond elementary calculus.

Financial Support
The Mathematics and Computer Science Department annually awards ten graduate assistantships. These positions pay an annual stipend of approximately $6800 plus waiver of tuition. The Mathematics assistantships require 20 hours per week work in the Mathematics laboratory during the fall and spring semesters. The Computer Science assistantships require 20 hours per week work under the supervision of a Computer Science faculty member.

International students must be in residence at UNO for at least one semester before being eligible for a teaching assistantship. This is to ensure satisfactory verbal skills in English

Course Descriptions

3100/8105 Applied Combinatorics (3) Basic counting methods, generating functions, recurrence relations, principle of inclusion-exclusion, Polya's Theorem. Elements of graph theory, trees and searching, network algorithms. Prereq: MATH 2030. (Same as CSCI 3100/8105)

3230/8235 Introduction to Analysis (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include the real number system, topology of the real line, limits, functions of one variable, continuity, differentiation, integration. Prereq: MATH 1970 and 2030. Recommended: MATH 2050.


3300/8305 Numerical Methods (3) Solving equations and systems of equations, interpolation, numerical differentiation and integration, numerical solutions to ordinary differential equations, numerical calculations of eigenvalues and eigenvectors, analysis of algorithms and errors, computational efficiency. Prereq: MATH 1960 and 2050. Recommended: MATH 2030. (Same as CSCI 4300/8305)


3500/8505 Selected Topics in Mathematics (1-6) This is a variable content course with selected topics in the mathematical sciences which may be of interest to students in other disciplines such as mathematics education, psychology and business. The course may be taken more than once for credit provided topics differ, with a maximum credit of nine hours. Mathematics majors may apply no more than three hours of MATH 3500 toward the major requirements. MATH 3505 does not apply to M.A. or M.S. in mathematics. Prereq: Permission of instructor.

3840/8845 Modern Geometry (3) Axiomatic systems, finite geometries, modern foundations of Euclidean geometry, hyperbolic and other non-Euclidean geometries, projective geometry. Prereq: MATH 1960 and 2030, or equivalent mathematical maturity.


4030/8036 Applied Modern Algebra (3) Review of sets, relations and functions. Semigroups, groups, rings and fields, lattices and Boolean algebra. Applications may include coding theory, linear machines and finite automata. Prereq: MATH 2030. Recommended: MATH 2050 and MATH/CSCI 3100/8105.

4110/8116 Abstract Algebra (3) Advanced undergraduate (beginning graduate) course in abstract algebra. Includes congruences, axioms for number systems, group axioms, group theory, homomorphisms, isomorphisms, quotient groups, and introduction to rings, integral domains, and fields. Prereq: MATH 4030/8036 or permission of instructor.

4120/8126 Abstract Algebra II (3) Advanced undergraduate (beginning graduate) course in abstract algebra to include rings, integral domains, fields, vector spaces, ideals, and algebraic number fields. Prereq: MATH 4110/8116.

4150/8156 Graph Theory and Applications (3) Introduction to graph theory, representations of graphs and graph isomorphism. Trees as a special case of graphs. Connectivity, covering matching and coloring in graphs. Directed graphs and planar graphs. Applications of graph theory in several fields such as networks, social sciences, VLSI chemistry and parallel processing. Prereq: MATH 2030 or permission of instructor. (Same as CSCI 4150/8156)

4200/8205 Mathematical Analysis I (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include ordered fields and the real number system, basic properties of complex numbers, metric space topology, sequences and series in Rk, limits and continuity in a metric space, monotonie functions. Prereq: MATH 3230/8235 or equivalent.

4240/8246 Mathematical Analysis II (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include differentiation and Riemann integration in Rk, Riemann-Stieltjes integration, sequences and series of functions, uniform convergence, power series, Stone-Weierstrass Theorem, functions of several variables, Implicit Function Theorem, special functions. Prereq: MATH 4200/8205.

4270/8276 Complex Variables (3) Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus, and applications. Prereq: MATH 3350/8355. (Same as MATH 4270/8276)

4300/8306 Linear Programming (3) Convex sets, hyperplanes, polytopes, mathematical modeling, formulation and geometry of linear programming. Primal simplex method, dual simplex method, revised simplex method, sensitivity analysis and problem solving using computer packages. Prereq: MATH 2050. (Same as CSCI 4300/8306)

4310/8316 Discrete Optimization (3) The mathematical foundations and solution algorithms of discrete optimization problems including transportation problems, network problems, and integer programming. Prereq: MATH 2050, MATH/CSCI 4300/8306. (Same as MATH 4310/8316)


4410/8416 Introduction to the Foundations of Mathematics (3) Logic, the axiomatization method, properties of axiom systems, set theory, cardinal and ordinal numbers, metamathematics, construction of the real number system, historical development of the foundations of mathematics, recent developments. Prereq: Senior or graduate.

4510/8516 Theory of Numbers (3) Congruences, quadratic reciprocity, diophantine equations, continued fractions and prime number distribution. Prereq: Junior or senior.


4650/8656 Automata, Computability and Formal Languages (3) This course presents a sampling of several important areas of theoretical computer science. Definition of formal models of computation, and important properties of such models, including Finite Automata and Turing machines. Definition and important properties of formal grammars and languages. Introduction to the formal theories of computability and complexity. Prereq: MATH 2030. Recommended: CSCI 3320. (Same CSCI 4650/8656)

4760/8766 Topics in Modeling (3) Formulation and analysis of various models involving Markov chains, Markov processes (including birth and death processes), queues, cellular automata, difference and differential equations, chaotic systems and fractal geometries. Prereq: MATH 3350/8355 and 3740/8745. (Same as CSCI 4760/8766)

9010 Statistical Research for Teachers (3) This course is designed for graduate students in the MAT program who select the statistics option to complete their degree. The student will do a literature review, design a study involving mathematics education, gather and analyze the data, and prepare a manuscript for submission to a refereed journal. (The course will not count toward a major in the MA or MS programs.) Prereq: STAT 8015 and CED 8010.

8020 Topics In Geometry and Topology (3) Selection from the following topics: Straight line and compass constructions; geometries and transformations - complex numbers and stereographic projection, non-Euclidean geometries; graph theory; topology of the plane; two-dimensional manifolds, theory of dimension. (This course will not count toward a major in the MA or M.S. programs.) Prereq: Secondary teacher certification or working toward it, or permission of instructor.

8040 Topics In Computer Science (3) An introduction to digital computers and computer systems. Overview of computer architecture, a brief history of the development of computing, a survey of the applications of computers, and the implications of the use of computers in education. Prereq: Teacher certification or working toward it, or permission of instructor.

8160 Algorithmic Graph Theory (3) Review of the basic concepts of graph theory, introduction to perfect graphs and their characterizations. Main classes of perfect graphs and their properties. Algorithms for main problems of perfect graphs. Applications of perfect graphs in several fields such as scheduling, VLSI and communication networks. Prereq: CSCI 3320/8325 and MATH/CSCI 4150/8156 or permission of instructor. (Same as CSCI 8160)


8350-8356 Theory of Analytic Functions (3) Semester I: Complex numbers, analytic and elementary functions, complex integrations. Semester II: Calculus of residues, entire and meromorphic functions, normal families and conformal mappings. Prereq: MATH 4230, 4240 or equivalent.

8450 Calculus of Variations (3) Functionals, the Euler-Lagrange equation, the Brachistochrone, minimum surface of revolution, isoperimetric problem, Fermat's Principle, Hamilton's Principle, least action, the vibrating string and membrane, max-min characterization of eigenvalues, further applications. Prereq: MATH 3350/8355 and 3360.

8460 Image Processing and Computer Vision (3) This course introduces the computer system structures and programming methodologies for digital image processing and computer vision. The course will cover the mathematical models of digital image formation, image representation, image enhancement and image understanding. Techniques for edge detection, region growing, segmentation, two-dimensional and three-dimensional description of object shapes will be discussed. The course will concentrate on the study of knowledge-based approaches for computer interpretation and classification of natural and man-made scenes and objects. Prereq: CSCI 1620, CSCI 3320

8500 Applied Complex Variables (3) Applications of complex variables to potential theory, Fourier and Laplace transforms, ordinary and partial differential equations, number theory, chaotic dynamical systems, etc. Prereq: MATH 4270/8276.

8520 General Topology (3) The concepts of MATH 4610/6161 are studied at an advanced level in conjunction with or and cardinal numbers, open and closed maps, separation axioms and countable compactness. Prereq: MATH 4610/6161 or permission of instructor.

8550 Introduction to Probability Models (3) An introduction to probability modeling including Poisson processes, Markov chains, birth-death processes, queueing models and renewal theory. Prereq: MATH 3140 or MATH/CSCI 4760 or STAT 3820.

8670 Algorithmic Combinatorics (3) Classical combinatorial analysis, graph theory, trees, network flow, matching theory, extremal problems, block designs. Prereq: MATH/CSCI 3510/8130. (Same as CSCI 8670)

8680 Advanced Automata and Formal Languages (3) A continuation of MATH/CSCI 4660/6666. The course will be an introduction to Computational Complexity. Topics that will be covered include space and time complexities of Turing Machines, deterministic versus non-deterministic machines, NP-Complete problems, alternating Turing machines, and concepts of reducibility. Prereq: MATH/CSCI 4660/6666. (Same as CSCI 8680)

8710 Design and Analysis of Algorithms (3) The study of algorithms important in computer programming. Principles and underlying concepts of algorithm design, fundamental techniques of algorithm analysis, typical types of algorithms. Related topics such as algorithms and computer architecture. Prereq: CSCI 3320/8325 or equivalent. (Same as CSCI 8710)

8810 Advanced Numerical Methods I (3) Error propagation, solutions of linear equations by various schemes. Matrix norms and conditioning, computation of eigenvalues and eigenvectors. Additional topics such as non-linear systems, least square problems, etc. Prereq: MATH/CSCI 3300/8305. (Same as CSCI 8810)


8840 Software Engineering II (3) A continuation of the study of software engineering, fundamentals of quality software. In-depth study of software specification and design techniques. Principles and underlying concepts of software specification and maintenance. Mathematics of software engineering. Related topics such as software metrics, configuration management, software reuse, and CASE tools. Prereq: 4830/8836

Introduction to Software Engineering

8880 Advanced Placement Institute: Calculus (3) A workshop for teachers planning to offer an advanced placement course in calculus. Objectives include increasing teacher competencies in single-variable calculus, discussion and study of AP calculus exams, implementations of AP courses in calculus, and development and presentation of projects for graduate credit. Prereq: Graduate in mathematics or mathematics education.

8910 Advanced Topics In Optimization (3) Topics selected from dynamic programming, multi-objective optimization, optimization in vector spaces, optimal management in bioeconomics, and optimal control. May be repeated for credit with the permission of the graduate advisor and instructor. Prereq: MATH/CSCI 4350/8356 or 4310/8316, and MATH 2330/8325 or permission of instructor. (Same as CSCI 8910)

8970 Independent Graduate Studies (3) Under this number a graduate student may pursue studies in an area that is normally available to him in a formal course. The topics studied will be a graduate area in mathematics to be determined by the instructor. Prereq: Permission of Instructor and graduate.

9800 Graduate Seminar (1-3) A graduate seminar in mathematics.

9890 Thesis (3-6)

9110 Advanced Topics In Applied Mathematics (3) Topics selected from applied algebra, applied linear algebra, coding theory, graph theory, differential equations, numerical analysis, etc. May be repeated for credit with permission of the graduate advisor. Prereq: Permission of Instructor.

9230 Theory of Function of Real Variables (3) Real numbers system, convergence, continuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, the Lp spaces. Prereq: MATH 4230/8230 or advanced calculus.

Statistics

3000/8005 Statistical Methods I (3) Distributions; introduction to measures of central value and dispersion; population and sample; the normal distribution; inference - single population, inference - two populations; introduction to analysis of variance. Statistical packages on the computer will also be utilized in the course. Prereq: STAT 1310 or equivalent.

3010/8015 Statistical Methods II (3) Regression and correlation, analysis of covariance, chi-square type statistics, more analysis of variance, questions of normality, introduction to non-parametric statistics. Statistical packages are used when appropriate. Prereq: STAT 8005 or equivalent.
MUSIC

PROFESSORS:
Bales, Foltz, Liotta, Low, Peters, Prince, Saker

ASSOCIATE PROFESSORS:
Crisara, Mullen, Todd

ASSISTANT PROFESSOR:
Stroope

Entrance Requirements for Admission to the Graduate Program in Music
Applicants must have earned a baccalaureate degree from a recognized institution of higher education. If the undergraduate degree is not in music or if the undergraduate cumulative grade point average (GPA) is below 3.0, the student must have a cumulative GPA of 3.0 or better in all undergraduate courses in music. If the student does not have a cumulative GPA of 3.0 or better in all music courses, the student must take the Department of Music Graduate Diagnostic Exam in music before enrolling in any graduate courses in order to determine which undergraduate foundation courses may be necessary.

Master of Music
The Department of Music offers graduate courses in the areas of music education, performance, history, and theory. The degree requires a total of 30 or 36 hours credit for completion, and may include a program in either performance or music education.

REQUIRED MUSIC PERFORMANCE PROGRAM OF STUDY
Audition is required before enrollment in any graduate applied lessons in this track.

Applied Music .................................................. 9
Music Bibliography ........................................ 3
Music Analysis for Performance ......................... 3
Topics in Music History ..................................... 3
Electives in Music .............................................. 6
Treatise .......................................................... 3
Recital ............................................................. 3
Total Semester Hours ......................................... 30

REQUIRED MUSIC EDUCATION PROGRAM OF STUDY
Research in Music Education ............................... 3
Organization and Administration of Music ............. 3
Foundations of Music Education .......................... 3
Pedagogy of Multicultural Music .......................... 3
Pedagogy of Music Theory .................................. 3
Topics in Music History ..................................... 3
Music or Education Electives ............................. 6
Option A: Thesis ................................................ 6
or
Option B: Electives in Music or Education ............ 12
Total Semester Hours .......................................... 30-36

Course Descriptions
8006 Special Studies In Music (1-3) Seminars or workshops in Theory, History, Performance, and Music Education designed to meet specific interests and needs of students. Topics and number of credits for each specific offering will be announced during the prior semester. Prereq: Graduate and permission of department.

6010 The Arts and the Executive (3) The course will provide the graduate student with an understanding of the organizational and managerial issues involved in an arts organization and the role of the arts in the business community. Prereq: Graduate admission and permission of instructor. (Same as BSAAD 8895)
4430/8436 Advanced Composition (3) Individualized applied study of the craft of musical composition in larger media and various styles. Prereq: MUS 3450 and written permission.
4440/8446 Twentieth Century Styles (3) This course will study 20th century music through analysis and practical application of the various theoretical, techniques, and individual stylistic qualities that contribute to identification of individual styles and "style schools." It is designed for those students who are unfamiliar with the music of the early part of the 20th century. Prereq: MUS 2420 or permission of instructor.
4550/8556 Advanced Orchestration (3) This course will present students to advanced orchestration techniques with regard to style. Advanced orchestration techniques will be approached by scoring of selected excerpts with special attention to scoring for a full orchestra using advanced devices for the orchestra. The study of scores, especially those from Impressionism to the present, will be done. This course is intended for any and all students who wish to arrange or compose for orchestra, band, chorus or any other large ensemble. Prereq: MUS 2420 and 2440 or permission of instructor, and graduate.
4420/8426 Counterpoint (3) A study through analysis and composition of contrapuntal techniques in tonal music with an introduction to contrapuntal techniques in non-tonal and non-western music. Prereq: Graduate and written permission.
4530/8536 History of the Lyric Theater (3) This course will consist of significant music theater works in the Western world from 1600 to the present. Prereq: MUS 2570, 2420, 2440; junior in applied voice; or permission of instructor.
4540/8546 Renaissance Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature c. 1500-1620. Prereq: MUS 2520, 2560, 2570 and graduate.
4550/8556 Baroque Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1600-1750. Prereq: MUS 2550, 2560, 2570 and graduate.
4560/8566 Classical Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1750-1820. Prereq: MUS 2550, 2560, 2570 and graduate.
4570/8576 Romantic Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of Music literature from c. 1815-1912. Prereq: MUS 2550, 2560, 2570 and graduate.
4580/8586 Music in the Twentieth Century (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature from the post-romantic period to the present day. The objective for this course will be to provide the student with a broad overview of the music of the 20th century. Prereq: MUS 2550, 2560, 2570 and graduate.
4600/8606 Piano Pedagogy (3) This course is designed for piano majors and private music teachers in "how to teach piano," from the beginning stages through elementary and advanced levels. Procedures of instruction, basic principles of technique and materials used in teaching piano are covered. Prereq: Permission of instructor.
4610/8616 Voice Pedagogy (3) This course is a study of the physiological and acoustical properties of the vocal mechanism and of the various techniques used in developing the singing voice. Also, it will apply knowledge acquired about the voice through studio teaching and observations of other voice teachers. Prereq: Junior voice or permission of undergraduate instructor. Graduate voice or permission of graduate instructor.
4670/8676 Piano Pedagogy II (3) This course is designed for piano majors and private music teachers in "how to teach piano" from the beginning stages through elementary and advanced levels. Procedures of instruction, basic principles of technique and materials used in teaching piano are covered. Prereq: MUS 4600/8606.
4710/8716 Acting for Music Theater (2) This course is a study of the technical and practical approaches essential to developing the "theater performer." Prereq: Music or drama major, permission of instructor.
4720/8726 Choral Literature (3) A survey course in the study of significant choral genre of the various periods of musical composition from plain song to contemporary music. This course is intended for senior level students in the K-12 music education track and for students working on a masters degree in music education with emphasis in choral music. Prereq: MUS 2570, 3640 and graduate.
MUSIC

4750/8735 Keyboard Literature (3) Survey and study of major piano repertoire from the Baroque keyboard composers to the 20th century composers. Inclued are keyboard concertos with orchestra. Prereq: Permission of instructor.

4740/8746 Voice Literature (3) This course is a study of the development of art song in Europe and America. Emphasis will be given to German and French song literature and their influences on English and American song. Prereq: Junior voice or permission of graduate instructor. Graduate voice or permission of graduate instructor.

8200-8390 Applied Music (1 or 3) Elective level for graduate students in the music education track for one credit hour. May be repeated. Required for graduate students in the performance track for three credit hours. To be repeated one time. Prereq: Audition and permission.

8150 Guitar (1-3)
8150 Piano (1-3)
8150 Voice (1-3)
8150 Violin (1-3)
8150 Viola (1-3)
8150 Violoncello (1-3)
8150 Bass Viola (1-3)
8150 Flute (1-3)
8150 Oboe (1-3)
8150 Clarinet (1-3)
8150 Bassoon (1-3)
8150 Saxophone (1-3)
8150 Baritone Horn (1-3)
8150 Tuba (1-3)
8150 Pipe Organ (1-3)
8150 Percussion (1-3)
8150 Harp (1-3)

8460 Music Analysis for Performance (3) A study of the primary analytical techniques developed by such important figures as Heinrich Schenker and Allen Forte. Music of many styles will be subject for analysis with focus on performance practice and application to conducting and interpretation. Prereq: Graduate.

8520 Music Bibliography (3) This course includes a study of music reference and research materials. Basic procedures and tools of investigative studies are treated, culminating in a research project. Prereq: Graduate and permission.

8610 Organization and Administration in Music (3) Course is designed to acquaint students with the knowledge and concepts necessary for understanding and developing music education programs in the public schools and specific knowledge pertaining to policies and procedures for administering and supervising programs of music education. Prereq: None.

8620 Seminar-Workshops in Music Education (1-3) Seminars and workshops in music and music education for the graduate student and inservice teacher. Prereq: Permission.

8630 Research in Music Education (3) A study of research techniques and literature in music and music education toward the objectives of reading and evaluating music education research and doing independent work in the area. Prereq: Graduate and permission.

8640 Foundations of Music Education (3) A study of psychological and historical backgrounds of music education through attention to relevant topics in the psychology of music and learning theory and through relevant readings in the history of music education as well as sociological trends in American schools. Prereq: Graduate.

8800 Pedagogy of Theory (3) Designed to introduce teachers to the techniques and problems of teaching music theory in elementary and secondary schools and colleges. This will be accomplished through a variety of methods to include a review of texts, teaching, and research. Prereq: Graduate and permission of instructor.

8700 Conducting Practicum (3) Private instruction in conducting and an intense study of the various disciplines in music and their relationship and application to the art of conducting. This course may be repeated for credit. Prereq: Students with a choral emphasis, MUS 3640 and 8760. Students with an instrumental emphasis, MUS 3630 and 8630.

8750 Advanced Instrumental Conducting (3) Study of advanced conducting problems in band and orchestral literature and techniques for their solution. Prereq: MUS 2600 and 3630 or 3640 or equivalent.

8760 Advanced Choral Conducting (3) Advanced Choral Conducting is an in-depth study of the problems in and the techniques required for conducting the following: (a) Choral music of the plainsong era to the present; (b) Music for choruses and instrumentalists. Prereq: MUS 2600 and 3640 or the equivalent.

8970 Thespias (3) Preparation of a written project about some aspect of the student's recital. Should demonstrate competency in writing and research of appropriate aspects of music. To be taken concurrently or prior to MUS 8980. Prereq: A written proposal for the written project must be approved by the appropriate departmental committee.

8980 Recital (3) This course involves the selection, preparation and public performance of a full recital in the student's major applied area. The recital should demonstrate the student's competency in a variety of styles and make advanced technical and interpretive demands. The course also includes a written project on the music performed at the recital. A full public recital and related written project as approved by the appropriate departmental committee is a graduation requirement for masters-level students in the performance track. Method of grading will be a designation of "satisfactory" or "unsatisfactory". Prereq: A written proposal for the recital and related written project must be approved by the appropriate departmental committee.

8990 Thespias (3) The purpose of this course is to allow graduate students in Music Education (Option I) to develop a substantive thesis which employs and mirrors research or original thought of a quality and quantity appropriate to advanced work in music education. This course will be handled on an individual study basis with aid and consultation from a faculty thesis adviser and thesis committee. Method of grading will be a designation of "satisfactory" or "unsatisfactory". Prereq: Permission of Graduate Committee and twenty-four (24) hours of graduate course work completed.
POLITICAL SCIENCE

PROFESSORS:
Camp, Chung, Kirwan, Menard

ASSOCIATE PROFESSORS:
Bacon, Bykerk, Farr, J. Johnson, B. Kolasa

Admission Requirements
Applications for admission to the Master of Arts or Master of Science program will not be accepted at this time. In concurrence with the Graduate College, a moratorium has been placed on the acceptance of such applications, effective January 1, 1989. Applicants who are interested in graduate course work in Political Science without a degree objective may apply for Unclassified status.

Course Descriptions
4030/8036 The Presidency (3) The rise of the institution from Washington to the present, the position and prestige it holds and how the president uses this power and prestige to influence Congress, the courts and the public. Prereq: For 4030, PSCI 1100 and junior.
4040/8046 The Legislative Process (3) A comprehensive study of the legislative process of the Congress and state legislatures. The major emphasis is on legislative institutions, processes and behavior. Prereq: For 4040, PSCI 1100 and junior.
4050/8056 The Judicial Process (3) 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 men's objectives, the pursuit of justice. Prereq: For 4050, PSCI 1100 and junior.
4120/8126 Public Opinion and Political Behavior (3) An analysis of the processes of public opinion formation and change, the relationship between public opinion and democratic processes, and the effects of public opinion on the operation of the political system. Prereq: For 8126, junior.
4180/8186 Constitutional Law: The Federal System (3) Analytical examination of American constitutional law regarding the relations of nation and state (Federalism) and the powers of the national government (Judicial, Congressional, and Executive).
4190/8196 Constitutional Law: Civil Liberties (3) Analytical examination of American constitutional law regarding the relations of nation and state (Federalism) and the powers of the national government (Judicial, Congressional, and Executive).
4200/8206 International Politics of Asia (3) Analysis of contemporary relations among the Asian nations as well as their interactions with the great powers; emphasis on the forces and issues which influence the international system of Asia. Prereq: For 4200, junior.
4210/8216 Foreign Policy of Russia (3) A study of the foreign policy of Russia, with emphasis on developments since 1965. Internal and external influences on Russian foreign policy, the processes of foreign policy making, and the relations among members of the Commonwealth of Independent States also will be considered. Prereq: For 4210; junior.
4230/8236 Inter-American Politics (3) 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 Inter-American system: the regional institutional and ideological environment, power relations, policies, and contemporary problems. Prereq: For 4230, junior.
4310/8316 Political Philosophy I (3) Textual analysis of leading works of classical political philosophy: Plato and Aristotle. Prereq: For 4310, junior.
4330/8336 Political Philosophy III (3) Textual analysis of leading works of later modern political philosophy: Rousseau, Burke, Mill. Prereq: For 4330, junior.
4350/8356 Democracy (3) A basic study of theory, practice and practitioners of political democracy, its roots, development, present application and problems and future. Prereq: For 4350, junior.
4360/8366 Dictatorship (3) An analysis of the most prevalent form of government in the world. The distinguishing characteristics of authoritarianism are examined and its various forms identified and compared. Prereq: For 4360, junior.
4500/8506 Government and Politics of Great Britain (3) A comprehensive study of British politics and government. Emphasis will be focused on the formal institutional and informal customs and practices of the British political system. Prereq: For 4500, junior.
4520/8526 Politics in France (3) An examination of the French political heritage, contemporary political institutions and problems, and political and policy response to these problems. Prereq: Graduate.
8090 Seminar in the Research Methods of Political Science and Public Administration (3) A critical investigation of the methods of data collection and analysis for political science and public administration research. Prereq: Permission of graduate adviser. (Same as PA 8000)
8094 Seminar in American Government and Politics (3) A thorough analysis of selected aspects of the structure and function of the American political system with emphasis on individual research by the student. Prereq: Permission of graduate adviser.
8150 Seminar in Public Law (3) Practical methods of research as applied to specifically selected problems in the 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 level. Emphasis will be varied from semester to semester in accordance with the background and objectives of the students enrolled. Prereq: Three semester hours in public law or permission of graduate adviser.
6200 Seminar in International Politics (3) An examination of the theoretical frameworks advanced for the systematic study of international relations, with application to particular problems in international relations. Prereq: Permission of graduate adviser.
8300 Seminar in Political Theory (3) Analysis of selected topics in normative, empirical and ideological political theory and their impact upon practitioners of politics. Prereq: Six hours of political theory or permission of graduate adviser.
6500 Seminar in Comparative Politics (3) 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. Prereq: Permission of graduate adviser.
8800 Independent Study in Topics of Urbanism (1-2) Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. Prereq: Undergraduate major in one of the social sciences. (Same as SOC 8800)
8830-8840 Interdisciplinary Seminar on the Urban Community (3-6) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Same as GEOG 8830-8840)
8900 Readings in Political Science (3) Specially planned readings in political science for the graduate student who encounters scheduling problems in the completion of his/her degree program, or who has special preparatory needs and who is adjudged by the political science department to be capable of pursuing a highly independent course of study. Prereq: Permission of graduate adviser.
8950 Thesis (3-6) A research project, written under the supervision of a graduate advisor in the Department of Political Science, in which the student establishes his capacity to design, conduct and complete an independent, scholarly investigation of a high order of originality. The research topic and the completed project must be approved by the student's departmental committee. Prereq: Permission of graduate advisor.
PROFESSIONAL ACCOUNTING

Objectives of the MPA Program

The primary objective of the Master of Professional Accounting degree program is to provide a graduate-level educational experience as a basis for a career in professional accounting. Students with or without undergraduate degrees in accounting can be admitted to this program. The program provides a broad-based preparation for individuals seeking careers in public, private or not-for-profit organizations. By choosing specific elective courses, however, individuals desiring a particular career path may pursue an area of specialization, such as Auditing, Information Systems, Financial Accounting, Managerial Accounting or Taxation. For more information regarding these areas of specialization, please call 554-3850.

The MPA program is designed for dedicated students with career aspirations demanding a high level of accounting expertise. As such, the program involves both intensive and extensive professional preparation. Upon completion of the program, the student will have the educational prerequisites for the following professional examinations: Certified Public Accountant (CPA), Certified Management Accountant (CMA), and Certified Internal Auditor (CIA).

Program of Study

The first year of the MPA program focuses on the Common Body of Knowledge as defined by the AACSB and sufficient undergraduate accounting preparation to pursue graduate education. These courses may be waived upon satisfactory evidence of prior preparation. In the second year, students complete a core of required courses in accounting and the supporting disciplines. In consultation with an adviser, electives may be selected to meet a student's specific career goals. The program requires a professional report based on independent research.

Admission Requirements

All applicants must meet the requirements of the Graduate School as stated in the Graduate Catalog. Applicants must submit a completed application, official copies of all transcripts and results of the Graduate Management Admission Test (GMAT) prior to admission to the program. Although other factors are considered, the general admission formula is:

\[ \text{GMAT (minimum 500)} + (200 \times \text{Upper Division GPA}) \geq 1120 \]

A comparable score on the Graduate Record Exam (GRE) may be substituted for the GMAT.

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.

I. Foundation Courses* – 42 total semester hours

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Note: Some or all of these courses may be waived based upon evidence of satisfactory undergraduate preparation.

II. Master of Professional Accounting*

– 36 total semester hours

A. Required Accounting Courses – 12 hours

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PROFESSIONAL ACCOUNTING

PROFESSORS:
Buehmann, Garsonbke, Trussell

ASSOCIATE PROFESSOR:
File, Ortman, Watanabe

ASSISTANT PROFESSOR:
Armitage

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</tr>
<tr>
<td>ACCT 8250</td>
<td>Seminar in Accounting***</td>
</tr>
<tr>
<td>ACCT 8260</td>
<td>Tax Research and Planning</td>
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<tr>
<td>ACCT 8900</td>
<td>Independent Research</td>
</tr>
<tr>
<td>ACCT 8910</td>
<td>Special Topics in Accounting</td>
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C. Required Tool Courses – 9 hours
   BSAD 8000 Quantitative Analysis or
   3-hour course in Research Methods****
   BSAD 8010 Legal Environment of Management

   One course from the following:
   BSAD 8720 Systems Analysis and Design
   BSAD 8730 Decision Support Systems
   BSAD 8740 Data Base Management

D. Other Electives – 6 hours
   In consultation with the MPA advisor, six (6) hours of
   additional graduate work must be selected from account­
   ing or business courses that are not numbered "8 - 6."

E. Other Requirements
   1. A maximum of six (6) hours of "8 - 6" courses may be
      included in the graduate program of study.
   2. All Foundation courses must be completed with a
      minimum grade of "C" before registering for graduate
      courses.
   3. Students also are subject to all policies and procedures
      of the Graduate College as stated in the Graduate
      Catalog.
   4. A student may elect to write a thesis for 6 credit hours in
      lieu of either 6 hours of accounting electives, 6 hours of
      other electives, or three hours each of accounting elec­
      tives and other electives.

   **All courses are three semester hours.
   ***New requirements for these MPA Foundation courses are currently being
   formulated. Contact the MPA advisor, CBA 408 after February 1, 1992 for
   further Information.
   ****Recommended Research Methods courses include ECCIN 8290, BSAD
   8020, PSYCH 9090, PA 8000, SOG 8000, TED 8010.

Course Descriptions

4010/8016 Advanced Accounting (3) A study of accounting theory,
   external reporting, consolidated statements and partnerships, and the
   accounting for installment sales, branches and foreign operations. Prereq: 
   ACCT 3040.

4030/8035 Tax Issues for Decision-Making (3) An introduction to the
   basic taxation principles for the non-accountant. This course is designed to
   elevate the tax awareness of and to provide tax knowledge for future
   decision makers. Prereq: ACCT 2020 or equivalent or BSAD 8110.

4040/8045 Federal Taxation of Corporations and Partnerships (3) 
   Analysis of the fundamental areas involved in the federal income taxation
   of corporations, corporate shareholders and partnerships. Prereq: ACCT 3020
   or equivalent.

4060/8065 Advanced Managerial Accounting (3) An more intensive
   analysis of advanced managerial accounting techniques that helps man­
   agers plan and control in both the short and long run. Prereq: DISC 2130,
   1230 and ACCT 3050.

4070/8070 Accounting for Not-for-Profit / Governmental Organizations
   (3) A study of the budgeting process, accounting techniques, reporting
   requirements and the financial operating characteristics of not-for-profit and

4090/8095 Advanced Auditing (3) Professional standards and practice
   issues are studied. Auditor responsibilities, evidence gathering and
   evaluation, and reporting obligations are described. Prereq: ACCT 4080,
   8210 Financial Accounting Theory (3) The development of accounting,
   current accounting theory and present controversies and suggested theory
   and practice. Prereq: ACCT 3040.

8220 Federal Estate and Gift Taxation (3) Analysis of the federal income
   taxation of estates, trusts and their beneficiaries; wealth transfer taxes,
   basic concepts of international taxation and other business-related taxes.
   Prereq: ACCT 3020 or equivalent.

8230 Controllship (3) An analysis of the concepts and techniques of the
   controller's function with emphasis on tactical and strategic planning and
   control. Prereq: ACCT 3050 and ISQA 2130.

8240 Professional Problems (3) Questions, problems and cases are used
   to develop and refine accounting analysis techniques and written
   communication abilities. Prereq: LAWS 3230, ACCT 3020, 3050, 4010,
   4060; and permission of instructor.

8250 Seminar In Accounting (3) A study of a specific area within the
   accounting discipline. Possible areas include: auditing, financial,
   managerial, systems and tax. May be repeated, but no area can be taken
   more than once. Prereq: Admission to the MPA program and permission of
   instructor.

8260 Tax Research and Planning (3) This course is designed to supply
   students with a working knowledge of the methodology applied in solving
   both routine and complex tax problems. Familiarity with the techniques will
   be gained through text material, journal articles and actual application.
   Prereq: ACCT 3020 or its equivalent and graduate.

8900 Independent Research (3) Individual research supplementing
   graduate study in a specific area within the Accounting discipline. May be
   repeated to a maximum of six hours. Prereq: Admission to MPA program
   and approval of written proposal.

8910 Special Topics In Accounting (3) A variable content course with
   accounting topics selected in accordance with student and faculty interest.
   May be repeated to a maximum of six (6) hours. Prereq: Permission of
   Instructor.
Students are expected to complete this exam requirement as soon as possible after their admission to the M.A. or M.S. program.

2. Completion of the required four proseminars (one from each proseminar group) with a grade of "B" or higher in each proseminar.

Master of Arts
To complete the M.A. degree with a major in psychology, the student must present 30 hours of graduate coursework in psychology, or 21 hours in psychology plus nine (9) hours in a related minor field. Six (6) hours of thesis credit are to be included in this total.

The student must choose one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

1. PSYCH 9040 Proseminar: Learning
   PSYCH 9070 Proseminar: Cognitive Psychology

2. PSYCH 9100 Proseminar: Analysis of Variance
   PSYCH 9110 Proseminar: Regression and Correlation

3. PSYCH 9210 Proseminar: Sensation and Perception
   PSYCH 9230 Proseminar: Physiological Psychology

4. PSYCH 9430 Proseminar: Personality
   PSYCH 9440 Proseminar: Social Psychology
   PSYCH 9560 Proseminar: Developmental Psychology

The student must earn a grade of at least "B" in the four required proseminars. If either a "C" is earned, or an unexcused withdrawal ('W') is recorded in a proseminar, this course or its pairmate must be retaken and completed with a grade of "B" or better. Should two such grades ("C" and/or "W") in one or more proseminars become a matter of record at any point in time (even if the initial "C" or "W" has been improved upon subsequently) the student will be dismissed from the program. This rule applies to the proseminar series only. However, the accumulation of any three "Cs" or a "D" or an "F" in any graduate course on the student's plan of study will also result in dismissal. A dismissed student may appeal to the Graduate Program Committee for consideration of readmission.

The remainder of the student's course work is elective but must be planned in conference with the academic adviser in order to meet the individual's needs and interests. Psychology 8000 is a non-credit course intended to familiarize the beginning graduate student with the profession of psychology and is required of all graduate students in psychology. The student may emphasize one of the following areas: quantitative, physiological, general experimental, social, personality, developmental, educational and industrial/organizational psychology. Final determination of a student's plan of study always resides with the adviser and the department. To meet the graduate college requirements, a student must take at least half of the work in courses which are open only to graduate students.
Master of Science
To complete the M.S. with a major in industrial/organizational psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate course work in psychology. The M.S. degree has the same proseminar requirement as the M.A., and all rules concerning proseminar courses are the same in both degree programs, as well as the requirement of Psychology 8000.

Required courses additional to the proseminars may be designated by the department. This will ordinarily include up to three hours of practicum credit. Final determination of a student's plan of study always resides with the adviser and the department. To meet the graduate studies requirements a student must take at least half of the work in courses which are open only to graduate students.

Specialist in Education
The Ed.S. degree requires completion of 66 graduate hours including those taken for the Master's degree. The requirements for this degree are the same as for those leading to certification as a School Psychologist with one addition. The degree candidate must write and defend a field project which deals with research or supervised experience in the area of school psychology.

Doctor of Philosophy
Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and in developmental psychobiology. Students may be considered for admission to a doctoral program if they have completed or are doing excellent work toward their Master's degree which includes a demonstration of research skills, preferably in the form of a defended thesis.

All doctoral students are required to complete three proseminar courses in addition to those completed for the master's program. These additional proseminar courses must include a second statistics proseminar and one proseminar each from two of the remaining three proseminar groups. Equivalent courses completed at another university may be substitued for proseminar courses with the approval of the students supervisory committee.

There is no generally specified language or research skill requirement, but each student is expected to demonstrate proficiency in languages, research skills or knowledge in collateral research areas appropriate for the student's research interests as determined by the Supervisory Committee.

Industrial/Organizational Psychology
In addition to the proseminar courses doctoral students in this program are required to complete the following courses: Theory of Measurement and Design, Multivariate Statistical Analysis, Industrial Motivation and Morale, Industrial Training and Development, Criterion Development and Performance Appraisal, Personnel Section, Practicum in Organizational Behavior and Dissertation. The remaining hours of course work are determined by the student and the supervisory committee.

Experimental Child Psychology
In addition to the proseminar courses doctoral students in this program are required to complete the following courses: Memory and Learning, Social and Personality Development, Cognitive Development, Language Development, Practicum in Developmental Psychology and Dissertation. The remaining hours of course work are determined by the student and the supervisory committee.

Developmental Psychobiology
In addition to the proseminar course doctoral students in this program are required to complete the following courses: Animal Behavior, Neurobiology, Seminar in Developmental Psychobiology, nine hours of biological science and Dissertation. The remaining hours of course work are determined by the student and the supervisory committee.

Summary of Procedure
for the Doctor of Philosophy Degree
This summary of procedure should be studied carefully in connection with the Graduate College calendar.

1. Admission to the UNL Graduate College.

2. Registration after consultation with advisers in major and minor departments.

3. Appointment by the UNL Graduate Office of a supervisory committee on the recommendation of the departmental or area Graduate Committee.

4. Submission to the UNL Graduate Office of a program approved by the supervisory committee setting forth the complete plan of study for the degree prior to completion of more than half of the minimum requirements.

5. Satisfactory completion of foreign language or research tool requirements set forth in the approved program and passing of comprehensive examinations in major and minor or related fields when the student's program of courses is substantially completed.

6. Submission to the UNL Graduate Office of a report from the supervisory committee on the specific research for the dissertation and progress to date.

7. Admission to candidacy for the Ph.D. degree by filing a report in the Graduate Office of the passing of the comprehensive examinations and the completion of language and research tool requirements (at least seven months before the final oral examination). The term of candidacy is limited to three years.

8. Filing of an application for the degree at the Registration and Records Office. This application is effective during the current term only. It must be renewed at the appropriate time if requirements for graduation are not completed until during a later term.
9. Presentation of the dissertation and the abstract to the members of the reading committee in sufficient time for review and approval, which must be obtained at least three weeks prior to the final examination.

10. Presentation to the Graduate Office of two copies of the approved dissertation, three copies of the approved abstract and the application for the final oral examination at least three weeks prior to the date of that examination.

11. Passing of any required final oral examination.

12. Deposit of two copies of the dissertation in proper form, one copy of the abstract and a signed agreement for microfilming the dissertation and publication of the abstract, with the UNL Director of University Libraries. Delivery of the certificate of deposit, signed by members of the supervisory committee, the UNL Director of University Libraries and UNL Comptroller, to the Graduate Office. In addition, one bound copy of the dissertation is to be deposited with the student's major department.

Professional Programs in the Area of School Psychology

Application
Application for admission to the programs in school psychology must be filed with the School Psychology Committee of the Psychology Department and the Office of Admissions. The applications should include official transcripts of all previous college work, scores for the Graduate Record Examination Aptitude Test, a vita and three letters of recommendation. Applications must be completed by February 28 for the following fall semester. Before a final decision is made concerning admission, the applicant must be interviewed by at least two members of the School Psychology Committee.

Certification

Students may take work leading to a recommendation for certification as a school psychologist. A minimum of 30 semester hours of work beyond the Master's degree is required for the recommendation. 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. In addition to the courses required for the 30 hours beyond the Master's degree, the student must complete requirements for the Master of Arts or Master of Science in Educational Psychology or its equivalent. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of electives. However, the final decision on the appropriateness of a program rests with the Psychology Department. Admission to the program signifies that the student's program has been approved. Students must contact the School Psychology Committee when starting their studies in order to facilitate individual program planning. The student's adviser must be a member of the School Psychology Committee. Students working toward certification must be enrolled in the Ed.S. degree program unless they have a waiver from the Director of the School Psychology Program.

The Ed.S. degree in School Psychology requires completion of 66 graduate hours including those taken for the Master's degree. The requirements for this degree are the same as for those leading to certification as a School Psychologist with one addition. The degree candidate must write and defend a field project which deals with research or supervised experience in the area of School Psychology. The student must consult with the School Psychology Committee before starting the specialist project. Ed.S. students can apply for certification as School Psychologists when they have completed all of the requirements listed below. Students must complete the required four proseminars and PSYCH 8000, 8316, 8500, and 8520 before they can enroll in PSYCH 9530, 8540, and 9560. PSYCH 8530 must be completed before a student can enroll in PSYCH 9580, but PSYCH 8540 and 9580 can be taken at the same time.

Required Courses in Psychological Foundations Statistics and Research Design ......................12 hours

The student must choose one proseminar course from each of the following four groups. The proseminar courses must be completed within the first 16 hours of graduate work.

I. PSYCH 9040 Proseminar: Learning
   PSYCH 9070 Proseminar: Cognitive Psychology

II. PSYCH 9100 Proseminar: Analysis of Variance
    PSYCH 9110 Proseminar: Regression and Correlation

III. PSYCH 9210 Proseminar: Perception
     PSYCH 9230 Proseminar: Psychological Psychology *

IV. Psychology 9650 Proseminar in Developmental Psychology (no other option for School Psychology students).

* Students are encouraged to take this course.

Proseminars must be selected according to Departmental policies and approval by the student's adviser. Unless special approval is granted by the program director, the proseminars must be completed prior to enrolling in Psychology 8530 and 8540.

Required Courses in Professional School Psychology ......3 hours
PSYCH 8000 The Profession of Psychology (no credit)
PSYCH 8500 Introduction to School Psychology

Required Courses in Assessment ..................................9 hours
PSYCH 8520 Psychological Assessment I: Foundations
PSYCH 8530 Psychological Assessment II: Early Childhood
PSYCH 8540 Psychological Assessment III: Childhood and Adolescence
Required Courses in Direct and Indirect Interventions ........ 3 hours
PSYCH 8570 Behavior Analysis and Intervention

Required Courses in Educational Foundations ......... 3 hours
PSYCH 8596 Psychology of Exceptional Children

Certification by the Nebraska Department of Education requires successful completion of a formal course on human relation (i.e., multicultural training); while graduate credit is not required for the Ed.D. degree per se, every student must complete an approved course in this area prior to endorsement by the Department of Psychology for certification in any state that has a human relations or cultural diversity requirement.

Enrollments are subject to strict adherence to prerequisites, as per the Graduate Catalog. All special enrollments, substitutions, or waivers must be approved by the advisor/faculty member, director of school psychology training and director of graduate studies in psychology.

Required Supporting Courses ....................................... 3 hours
At least one course in one of the following two (2) supporting areas will be selected: Advanced Psychology and Studies and Special Education and Curriculum Studies. Courses will be determined by the student’s career preferences and state certification requirements.

The following courses are examples of courses that could be included in the two (2) aforementioned supporting areas:

Advanced Psychology Studies
PSYCH 8560 Learning in Children
PSYCH 9470 Psychopathology of Youth
PSYCH 9520 Linguistic Development
PSYCH 9530 Cognitive Development
PSYCH 9550 Social and Personality Development
PSYCH 9580 Personality Assessment

Special Education and Curriculum Studies
SPED 8606 Introduction to Mental Retardation
SPED 8910 Theories of Assessment and Diagnosis of Learning Deficits (another curriculum course may be approved by the adviser).

Practicum in School Psychology (PsyCh 9970) .... 3 hours
A total of three credit hours (50 hours of field placement for each hour of credit); one practicum shall emphasize intervention (with special reference to consultation) and one practicum shall emphasize assessment. Special enrollment is required; students are required to request a practicum at least two months in advance. With appropriate graduate-level work experience, one practicum may be waived. With approval, one practicum may be in a non-school setting.

Notice: Completion of the Master of Science degree is inadequate for certification by the Nebraska Department of Education. For endorsement for Certification, acceptable completion of the Specialist of Education degree from UNO is required.

Recommendation for Certification
In addition to completion of required courses with acceptable grades (a “B” or better in each course applied to satisfying the program), the faculty of the School Psychology Training Program and the chairperson of the Department of Psychology have the explicit authority to require each student to demonstrate ethical, emotional, and behavioral qualities consonant with meeting the expectations of public policy for the practice of professional school psychology. Any denial of recommendation for certification on these criteria will be subject to the grievance and appeal policies of the Graduate College.

NOTE: The above has been approved by the School Psychology Training Program faculty, and is subject to further review, modification, and approval by various sources in the Department of Psychology and the Graduate College.

Course Descriptions
4010/8010 History of Psychology (3) A study of the origins, development and nature of psychology and its relation to external events; emphasis on the period since 1875. Prereq: None.
4060/8066 Environmental Psychology (3) A study of 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. Prereq: Basic Statistics or Experimental Psychology with laboratory or permission.
4250/8250 Limits of Consciousness (3) A survey of theories, practices and research on altered states of consciousness. Emphasis on experimental as well as intellectual proficiency. Prereq: None.
4270/8276 Animal Behavior (3) 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. Prereq: PSYCH 1010 and BIOL 1750 or permission. (Same as BIOL 4270/8276)
4280/8286 Animal Behavior Laboratory (2) Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiences and independent studies will be conducted. Prereq: BIOL/PSYCH 4270/8276 or concurrent enrollment. (Same as BIOL 4280/8286)
4310/8316 Psychological and Educational Testing (3) The use of standardized tests in psychology and education is considered with special regard to their construction, reliability and validity. Prereq: PSYCH 1020 or 3510 and 2130.
4330/8338 Individual Differences (3) A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical traits and environment in causation of individual differences in mental traits. Prereq: Nine hours of psychology including Introduction to Psychology and Basic Statistics.
4430/8436 Psychoanalytic Psychology (3) This course is for non-majors. It focuses on Freud and psychodynamic psychology. Included are many insights as to human nature, e.g., with regard to sex, aggression, narcissism and greed. Prereq: Graduate and an introductory psychology course.
4440/8446 Abnormal Psychology (3) A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy and prognosis of syndromes are considered. Prereq: PSYCH 1010.
4450/8456 Personality Theories (3) A comparative approach to the understanding and appreciation of personality theories considering history, assessment, applications, validations and prospects. Prereq: None.
4480/8486 Eastern Psychology (3) Theories and techniques of Buddhist psychology with special emphasis on Zen practice. Emphasis on experiential as well as intellectual proficiency. Prereq: Graduate.
4520/8526 Psycholinguistics (3) 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. Prereq: Permission of Instructor.
4570/8576 Behavior Analysis and Interventions (3) Introduction to experimental methodology, rationale and research literature of changing behavior through behavior modification techniques. Particular attention will be paid to methodological concerns regarding single subject design, ethical considerations and ramifications of behavior intervention with children and youth. Prereq: PSYCH 1010, 3010 and permission of Instructor.
4590/8596 Psychology of Exceptional Children (3) Study of exceptional children, that is, children with sensory or motor impairments, intellectual retardation or intellectual deficiencies, gifted or talented abilities, language or speech disorders, emotional or behavioral problems, social or cultural differences, or major specific learning disabilities. Prereq: None.

4600/8606 Psychopathology of Youth (3) Considers basic psychological principles, models, and research as they apply to youth, especially focusing on the psychology of exceptionality. Focus is upon teaching/learning in the society and culture. Prereq: None.

8550 Students will participate in the classroom experience In the inductive and deductive methods of thinking. Prereq: Permission of Instructor. 

8560 Social Work, Psychology and the Law (3) Examination of some of the legal aspects of selected social welfare policy issues such as abortion, illegitimacy, alcoholism and drug addiction, creditor and debtor's rights, landlord and tenant relationships, housing law, right to treatment, status of the convicted individual, mental health commitment procedures. Prereq: For 4800, SOWK 2110 or equivalent. For 8800, SOWK 8050 or permission.

8000 The Profession of Psychology (0) Required 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, use of reference materials, licensing and certification and other relevant material. Social emphasis upon intelligence, achievement, personality, and sociocultural issues. Prereq: Consent of Instructor. 

8140 Multivariate Statistical Analysis (3) Study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in social behavioral sciences. Prereq: PSYCH 2130 or equivalent.

8250 Family Analysis and Treatment (3) The family is considered as a system of social work intervention. Several theories of family interaction are considered; alternative modalities of family treatment are assessed; Intervenstional skills are developed. Prereq: SOWK 8200 or permission.

8350 Introduction to School Psychology (3) This course covers role definitions, functions, theories, assessment, personality, certification, requirements, employment opportunities, public policy, legislation, and ethics relevant to school psychology. In addition to classroom sessions, each student will complete a practicum wherein he/she will work alongside a practicing school psychologist. Prereq: Admission to graduate studies in psychology or a human service field.

8510 Advanced Educational Psychology (3) Study of the principles of learning and their applications to problems of contemporary education, particularly to those problems existing in the classroom. Prereq: PSYCH 2150.

8520 Psychological Assessment I: Foundations (3) This is an introductory or survey course on the objective and subjective aspects of human assessment. It is intended to serve as the foundation for more advanced study of assessment. According to disciplinary specialization. Clinical considerations are applied to professional judgment, diagnostic interview, observational analysis, rating scales, standardized intellectual and personality tests, objective personality methods, and critical social issues relevant to assessment. Prereq: Admission to graduate study in psychology, social work, sociology or education.

8530 Psychological Assessment II: Early Childhood (3) This course is addressed methods and strategies of assessment of infants, toddlers, and preschoolers who are at risk for delayed development. Emphasis is on issues of technical adequacy and hospital, clinic, and community based assessment techniques. Prereq: Graduate and completion of PSYCH 8520 or equivalent and permission of instructor.

8540 Psychological Assessment III (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence, achievement, personality, and social behavior assessment with children and adolescents. Prereq: Completion of Seminar requirement, PSYCH 8520, and permission of instructor.

8550 Psychotherapeutic Interventions (3) Purpose of this course is to become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. The history and methods of the research and practice of play therapy are considered. Prereq: Permission of Instructor.

8660 Psychology of Women (3) A course providing comprehensive coverage of psychological theory and research pertaining to women. Critical analysis of theoretical and experimental issues will be emphasized. Students will participate in the conduct of the course and will be expected to write an appropriate research proposal. Prereq: Graduate, any department; or permission of instructor.

8800 Problems in Psychology (1-6) A faculty-supervised research project, involving empirical or library work and oral or written reports. Prereq: Written permission of department.

8950 Practicum in Industrial Psychology (1-6) Faculty-supervised experience in industry or business designed to bridge the gap between the classroom and the workplace, emphasizing use of previously acquired knowledge in dealing with practical problems. Prereq: Written permission of your practicum committee.

8970 Practicum in Educational Psychology (1-6) Faculty-supervised experience in an educational agency designed to acquaint the student with practical problems faced by psychologists who work in educational settings. Prereq: Written permission of your practicum committee.

8980 Practicum in Developmental Psychology (1-6) Faculty-supervised experience in a setting designed to provide a practical understanding of theoretical concepts of human development. Emphasizes direct observation and personal interaction as means of training, and can be directed toward various populations within the developmental life span (e.g., infants, preschoolers, middle childhood, adolescents, adults, aged persons). Prereq: PSYCH 9500 and permission of Developmental Psychology Area Committee.

8990 Thesis (1-6) Independent research project written under supervision of a faculty member. May be repeated up to a total of six hours. Prereq: Written permission of your thesis committee.

9030 Seminar: Topics in Industrial/Organizational Psychology (3-9) A topical area within the field of Industrial/Organizational Psychology will be explored in depth. Prereq: Graduate and permission of instructor.

9100 Proseminar: Learning (3) A comprehensive and intensive coverage of experimental literature on learning in humans and animals. Prereq: Permission of instructor.

9170 Proseminar: Cognitive Psychology (3) This course will be a comprehensive overview of the field of cognitive psychology including the topics of attention and performance, memory, problem solving, and language. In addition, there will be a more in-depth coverage of selected topics. Prereq: Graduate or permission of instructor.

9190 Theory of Measurement and Design (3) Study of theoretical and practical problems related to the development and use of psychological research and design in covering such topics as scaling, test development, reliability, validity, interpretation of results and generalizability. Prereq: PSYCH 2130 or equivalent.

9190 Proseminar: Analysis of Variance (3) A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of variance model. Prereq: Permission of instructor.

9190 Proseminar: Research Design and Correlation (3) Course is intended for graduate students in psychology as a part of a core requirement for four prosternars. It is appropriate for persons in other disciplines interested in a correlational approach to the study of relationships among variables. Prereq: Permission of Instructor.

9190 Proseminar: Multivariate Statistical Analysis (3) An examination of statistical procedures for describing and analyzing multivariate data commonly collected in behavioral research. Analytic techniques derived from general linear model will be considered, focusing on proper interpretation and use. The course is intended for doctoral students in psychology and (selectively) for advanced masters students in behavioral sciences. Prereq: PSYCH 9000, 9100, and 9110 or permission of instructor.

9210 Proseminar: Multivariate Statistical Analysis (3) An introduction to the study of the biological substrates of behavior with emphasis upon neuroanatomy, neurophysiology and neuropharmacology. Prereq: Permission of Instructor.

9290 Seminar in Developmental Psychology (3-9) An in-depth analysis of a specific topic in psychology. Prereq: Permission of instructor.

9320 Seminar in Program Evaluation (3) This course is intended to help advanced graduate students in the applied social sciences understand the literature and conduct evaluation research. The history of program evaluation and philosophies manifest in evaluation research are reviewed, alternative evaluation models are discussed, and relevant methodological and practical issues such as quasi-experimental design and utilization are explored. Prereq: Students should have prior graduate-level course work or experience in research design and statistics in the applied social sciences.
9430 Proseminar: Personality (3) A course considering the effects of personality variables on behavior. A historical, theoretical, psychometric and experimental approach will be emphasized. Prereq: Permission of Instructor.

9440 Proseminar: Social Psychology (3) Examination of theories, research findings and controversies in social psychology. Topics will include socialization, person perception, interpersonal attraction, leadership and group effectiveness, attitudes, attitude measurement, and attitude change; intergroup relations, power and social influence. New topics will be added as they become part of the course. Prereq: Permission of instructor.

9460 Proseminar: Personality (3) To become familiar with the psychology of aging from a research perspective. The focus will be on psychological research in the middle years and in later years. Prereq: Twelve hours of psychology and/or gerontology or permission. (Same as GER 9460)

9520 Language Development (3) Students will explore the course of language development as well as current theoretical views attempting to explain how language is acquired. Coverage includes all aspects of language including phonology, syntax, semantics, and pragmatics. A portion of this course will be devoted to current computer-based methods in the analysis of child language. Prereq: PSYCH 9560 or a background in linguistics or communication disorders.

9530 Cognitive Development (3) This course covers contemporary issues in theory and research concerning the development of processes by which environmental information is perceived, attended to, stored, transformed and used. Both Piagetian and information processing orientations will be emphasized. Prereq: PSYCH 9580.

9540 Memory and Mechanism of Development (3) The focus of this course is on research and theory concerning the development of memory in children. Topics include the role of memory in development and the mechanisms underlying children's advancing cognitive abilities. The emphasis on memory is based on the assumption that mental representations are crucial for development to take place. Prereq: PSYCH 9560.

9550 Social and Personality Development (3) A seminar focusing on research methods, theory, and the empirical literature as they apply to social and personality development across the life span. All students will be expected to design and conduct a mini-observational/experimental study in some specific area of social and personality development. Prereq: Graduate and PSYCH 9550 or its equivalent.

9560 Proseminar: Developmental Psychology (3) A survey of developmental processes across the life span, with a particular emphasis on the interface of biological, cognitive and social influences. Theories of human development and issues pertaining to developmental processes are examined. The primary focus of the course is on the research literature pertaining to developmental psychology. Special emphasis is given to the role of context in development and to the topics of research methods, multicultural factors in development and social policy. Prereq: Graduate.

9570 Applied Behavior Analysis (3) A comprehensive introduction to experimental methodology in applied behavior analysis. Topics covered include observational recording systems, reliability indices, experimental design, and implementation of behavioral techniques, single-subject research designs and a broad review of the research literature. Prereq: A minimum of one course in learning theory (PSYCH 9560, 8570, 5940, or equivalent) and permission.

9574 Laboratory in Applied Behavior Analysis (3-6 hrs) Laboratory work coordinated with PSYCH 9570 consisting of the systematic application of behavioral technology within the context of single-subject experimental designs. Emphasis will be on the methodology of behavior children with cognitive, social or behavioral problems. Prereq: PSYCH 9570 or permission.

9580 Personality Assessment (3) A course dealing with projective and objective methods for personality assessment and intended for advanced graduate students in psychology preparing to be clinical practitioners in schools and mental health facilities. Prereq: Foundation courses in tests and measurements, abnormal psychology and personality theories; two courses in individual intelligence testing; and permission of instructor.

9590 Seminar in Developmental Psychology (3-6) Faculty and student presentations organized around one of the following three major subdivisions of child psychology: (1) Social and personality development, (2) Developmental changes in memory and learning, (3) Cognitive growth and functioning. The course may be repeated each time a different topic is covered, up to a maximum total of nine credit hours. Prereq: Completion of the proseminar sequence and permission of Instructor.

9610 Industrial Motivation & Morale (3) A course focusing on theory and research in the areas of work motivation, work behavior, and job satisfaction. Emphasis is placed on such topics as expectancy theory, job redesign, leadership, absenteeism, turnover, goal setting and behavior modification. Prereq: Admission into industrial psychology graduate program.

9620 Industrial Training and Development (3) An analysis of the theoretical and practical problems of conducting training programs in industry including diagnosis, design, implementation and evaluation. Emphasis is placed on practice in designing and implementing training programs in response to actual industrial situations. Prereq: Admission into industrial psychology graduate program.

9650 Industrial Psychology Research Methods (3) Acquisition of skills in writing research proposals, executing research and writing journal articles. Course is to be designed to suit the needs of the student and various research data collection and statistical techniques that are applicable to industrial psychology research. Prereq: Admission into industrial psychology graduate program.

9750 Seminar in Research Design (1-12) Research work under supervision of a faculty member. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level and permission of department.

9850 Practicum in Industrial Psychology (3-6) Faculty-supervised experience in industry or business designed to bridge the gap between the classroom and a job, emphasizing use of previously acquired knowledge in dealing with practical problems. Prereq: Permission of department and admission to doctoral program.

9930 Research Other Than Thesis (1-12) Research work under supervision of a faculty member. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level and permission of department.

9970 Practicum in School Psychology (1-6) Faculty-supervised experience in the schools. Prereq: Permission of Instructor.

9980 Practicum in School Psychology (1-6) Faculty-supervised experience in the schools. Prereq: Completion of four hours of PSYCH 9970 and written permission of the School Psychology Committee.
PUBLIC ADMINISTRATION

PROFESSORS:
Hinton, B.J. Reed, Reynolds, Suzuki, White

ASSOCIATE PROFESSORS:
Bruce, C. Reed, Krane

Master of Public Administration

The Master of Public Administration (MPA) is a professional graduate degree designed: (1) to prepare students for careers in the public service - national, state, local or non-profit agencies, and (2) to provide professional development opportunities for those already in the public service.

Professionals with general administration skills are needed in all areas of government. The MPA program stresses the development of management and administrative abilities important to both staff specialists and administrators.

Students in the MPA program likely will come from widely differing backgrounds. Some may come from current public employment and professions such as law, health administration and business administration while others may enter with degrees in the social sciences, engineering, business, human services or the humanities.

The MPA courses are regularly offered at night to meet the needs of full-time employees.

The Department of Public Administration is a member of the National Association of Schools of Public Affairs and Administration (NASPAA). In 1991, the program was once again placed on the National Roster of Programs found to be in conformity with NASPAA Standards for Professional Masters Degree Programs in Public Affairs and Administration.

Degree Requirements

Thirty-nine graduate credit hours are required for the MPA degree. The course work shall include 24 hours of core courses required of all MPA students. The optional courses chosen by the student with the assistance of a departmental advisor, may include one of the 12-hour plans listed below or may, on occasion, include a separate 12-hour plans of study designed to meet a particular set of career development needs. In addition, one elective course may be selected by the student.

A comprehensive written final examination is required of all MPA students.

Admission

The general prerequisite for admission to the MPA program is a Bachelor of Arts, Bachelor of Science, or equivalent degree. Beginning with admissions for spring 1993, student admission status will be determined based on the following criteria:

- Grade point average for the junior-senior year
- Grade point average for the undergraduate major
- Work history
- Writing skills

Students, at their option, may take the Graduate Entrance Examination (GRE) or the Millers Analogy Test (MAT) should they believe it would help strengthen their admission status.

Generally, students will be admitted UNCONDITIONALLY, if they have achieved a grade point average of 3.00 on a 4.00 system for the junior-senior year or in the major, and demonstrate strong communication skills in their admissions essay.

A student may be admitted PROVISIONALLY if the student has a grade point average below 3.0 but at or above 2.7 if they demonstrate ability to do graduate work through some combination of a demonstrated record of public or nonprofit sector service, the quality of the admission essay, or scores on the GRE/MAT.

In rare instances, a student whose grade point average is below 2.7 may also be admitted provisionally should their public/nonprofit sector service record be exceptional or should some other significant indicator of ability (e.g., high GRE/MAT scores) to do graduate level work be established.

Students who wish to take courses for professional growth or personal interest but who do not intend to pursue an advanced degree may be granted UNCLASSIFIED admission.

To apply for admission to the MPA Program, a student must submit to the UNO Admissions Office:

- an application for admission
- a work history or resume
- a two page double spaced typed essay on how the MPA degree will further the student's career objectives
- official transcripts from all undergraduate and graduate institutions

In addition to unconditional, provisional, and unclassified admission, a student may be temporarily admitted in cases where another admission status is likely to be granted. Please check the Graduate Catalog for stipulations related to a "Temporary" Admission.

Deadlines for admission are July 31 for the fall semester, November 30, for the spring semester, and April 30 for the summer session. No "temporary" will be signed unless the application was filed by the above deadline.

When the file in Admissions is complete, the file will be forwarded to the Department for review. The recommendation by the MPA Graduate Program Committee on admission of the application will be sent to the Dean for Graduate Studies and Research. All recommendations on admission are subject to the approval of the Dean.
Non-native Students
Students who plan to attend the MPA program from foreign countries where English is clearly a second language may be granted provisional or unclassified admission subject to the following conditions:

They must complete the TOEFL exam with a score of 550 or better.

They must take the English Diagnostic test administered by the Department of English and demonstrate through this test the ability to communicate orally and in writing in a manner sufficient to compete effectively at the graduate level with English-speaking native-born Americans.

1. Should the student be unable to pass the TOEFL exam or meet the requirements as described in the English Diagnostic Test, they will be required to enroll in "English as a Second Language" courses offered by the English Department at UNO and demonstrate to the satisfaction of their instructor and the ILUNO staff that their English competency is adequate for graduate-level work. When such competency has been determined, the student will need to retake the TOEFL and obtain a score of 550.

Quality of Work Standards
Graduate students are expected to do work of high caliber. Failure to do so will result in at least temporary dismissal from the program or from graduate standing. In particular, any one of the following will result in automatic dismissal from the program for those student with unconditional or provisional admission:

- Failure to maintain a 3.1 average in graduate public administration courses for the first 12 hours of the MPA program.
- Failure to maintain a "B" average in all graduate work taken as part of the degree program beyond 12 hours.
- Receiving at least nine hours of graduate credit with the grade of "C" or "C+" in any courses in the student's major field of study or in any courses included in the plan of study, regardless of the average.
- Receiving a grade of "D+", "D", or "F" in any course in the student's major field of study or in any courses in the plan of study.

Provisional students may also be dismissed from the program if:

- A grade of "C+" or below in any course is received during the first 12 hours of graduate study.

For students with Unclassified admission, the above quality of work standards apply to all course work taken. A student will be automatically dismissed from graduate standing should any of the above conditions occur.

A student who has been dismissed for failure to meet the Quality of Work standards may petition the Graduate Program Committee for any of the following:

- Unconditional reinstatement to the degree program (if appropriate)
- Reinstatement with Unclassified status in order to retake specific courses, with possible readmission to the degree program
- Reinstatement with Unclassified status

The recommendation of the Graduate Program Committee will be forwarded to the Dean for Graduate Studies and Research; only the Dean can readmit the student. The student will be informed by the Office of Graduate Studies of the Dean's decision on the reinstatement petition.

Application for Candidacy
In accordance with Graduate College guidelines, students must apply for candidacy for the degree when: (1) a minimum of six hours of graduate credit necessary to the degree program have been completed; (2) a grade average of "B" with no grade lower than "C" has been earned; (3) the student is not currently carrying "incompletes" within his/her area of study.

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

Application forms should be filled out by the student, in consultation with a faculty adviser, as soon as the student can qualify for admission to candidacy.

Transfer of Credit
A student may transfer up to nine (9) hours of graduate credit from outside the University of Nebraska and use those credits toward the MPA degree requirements. This requires approval of the Graduate Program Committee. Students should discuss this with a faculty adviser. The request for a transfer of credit should be made as soon as possible but no later than when filing for candidacy. The request to transfer credits requires a letter of explanation from the student as well as all relevant course syllabi. Twelve hours may be transferred in exceptional cases but requires Graduate Program Committee approval.

Core and Required Courses*
The Department of Public Administration has eight core courses, required for all MPA students.

- PA 8050 Introduction to Public Administration
- PA 8268 The Public Policy Process
- PA 8400 Public Budgeting
- PA 8410 Public Personnel Management
- PA 8420 Organization Theory and Behavior
- PA 8440 Seminar in Organization Development in Public Agencies
- PA 8460 Seminar in Public Financial Administration
- PA 8950 Research Methods for Public Affairs**
Services for the Aging. Other recommended courses are:

Social Gerontology, and GERO 8676, Programs and Planning to earn the Certificate in Gerontology must apply Gerontology Option Certificate in Gerontology at the same time. Those and be admitted to the Gerontology program as well as to

clusters. Student must select at least two courses from Cluster One or from Cluster Two.

**Cluster One**
- PA 8080 Accounting for Public Managers
- PA 8110 Management Information Systems
- PA 8460 Seminar in Public Personnel Administration
- PA 8470 Administrative Ethics
- PA 8806 Administrative Law
- PA 9100 Strategic Planning and Project Management

**Cluster Two**
- PA 8030 Internship
- PA 8040 Internship
- PA 8050 Survey of Public Administration
- PA 8100 Seminar in Public Administration
- PA 8320 Public Policy Evaluation
- PA 8436 Municipal Administration
- PA 8450 Advanced Management Analysis
- PA 8496 Public Sector Labor Relations
- PA 8500 Issues in Public-Private Sector Cooperation
- PA 8516 Long-Term Care Administration
- PA 8520 Training and Development in the Public Sector
- PA 8550 Issues in the Administration of Non-Profit Organizations
- PA 8566 Intergovernmental Management
- PA 8700 Marketing for Public and Nonprofit Organizations
- PA 8710 Fundraising in Public and Nonprofit Organizations
- PA 8920 Readings in Public Administration
- PA 8930 Negotiation Skills in General Management
- PA 8940 Research in Public Administration

Gerontology Option
Students selecting this option may also earn the Certificate in Gerontology at the same time. Those planning to earn the Certificate in Gerontology must apply and be admitted to the Gerontology program as well as to the MPA program.

Students are required to take GERO 8116, Applied Social Gerontology, and GERO 8676, Programs and Services for the Aging. Other recommended courses are:

GERO 8106 Educational Gerontology
GERO 8466 Aging and Human Behavior
GERO 8506 Legal Aspects of Aging

GERO 8526 Mental Health and Aging
GERO 8730 Thanatology-Study of Death
GERO 8856 Hospice and Other Services for the Dying Patient/Family
GERO 8986 Counseling Skills in Gerontology

**Local Government Option**
Students taking this option are required to take PA 8436, Municipal Administration. Also, recommended courses include:

- PA 8100 Seminar in Public Administration
- PA 8300 Seminar in Public Policy
- PA 8906 Special Topics-Municipal Law
- GEOG 8126 Urban Geography
- ECON 8850 Seminar in Urban Economics
- CRP 811 Urbanism and Planning in the U.S.*

Planning Option
Students selecting this option may have to take one or more courses on the Lincoln campus. Recommended courses include:

UBNS 8066 Introduction to Urban Planning
CRP 811 Urbanism and Planning in the U.S.*
CRP 813 Planning Process and Theory*
CRP 815 Housing Renewal and Development*
CRP 822 Research Methods for Planning*
CRP 828 Planning Administration and Implementation*
CRP 897 Selected Topics in Planning*
CRP 898 Special Problems in Planning*
CRP 913 Planning and the Natural Environment*
CRP 915 Planning within the Intergovernmental Context*
CRP 917 Planning with Minority and Low Income Groups*
CRP 924 Human Resource Planning*
GEOG 8126 Urban Geography
GEOG 8168 The American Urban Landscape

Social Work Option
Students taking this option should have a broad social science background.

Foundation Courses:
- SOWK 8000 Human Behavior and the Social Environment
- SOWK 8050 Social Welfare Policy, Services and Analysis

Macro Practice Courses:
- SOWK 8500 Social Development
- SOWK 8520 Social Work Administration
- SOWK 8540 Social Welfare Planning
- SOWK 8560 Supervision in Social Work
- SOWK 8580 Social Work, Social Action, Change and Political Advocacy

Social Problem/Condition Courses:
- SOWK 8600 Social Work in Mental Health
- SOWK 8666 Social Work in Child Welfare
- SOWK 8806 Social Work and the Law

Special Studies and Social Welfare:
- SOWK 8940 Evaluation of Social Programs
Criminal Justice Option
Students choosing this option should have background in criminal justice.

Recommended courses:
- CJUS 8010 Nature of Crime (same as CJUS 811)
- CJUS 8020 Seminar in Administration of Justice
- CJUS 8100 Criminal Justice Organization, Administration and Management

OR
- CJUS 8110 Criminal Justice Planning and Change
- CJUS 8040 Seminar in Police and Society

Health Option
Health option courses should be selected in consultation with UNMC advisor and departmental adviser.

Nonprofit Management Option
- PA 8550 Management of Nonprofit Organizations
- PA 8700 Marketing for Public and Nonprofit Organizations
- PA 8710 Fundraising for Nonprofit Organizations
- PA 9100 Strategic Planning in Public and Nonprofit Organizations

Other Specialized Options
Students may design a specialized option to fit their career and vocational goals. These courses, however, must contain a definable substantive area and provide a cohesive set of educational objectives. Such an option must receive the approval of the Graduate Program Committee.

Electives
Students may take three hours of their degree program within the MPA degree as an elective. However, this elective must relate to the optional area or to some other substantive element of the degree program.

NOTE: Courses offered on the Lincoln campus.

Course Descriptions
4890/8896 Introduction to Urban Planning (3) This course will serve as an introduction to the development of urban planning as it has shaped and continues to influence public and major trends in the field. It will provide students with major themes and traditions in the field of planning and will include planning practice, planning procedures and methods, and contemporary issues in the field. Prereq: Graduate.

4930/8936 Municipal Administration (3) The administrative structure and administrative practices of American cities covering such areas as finance, personnel, public works, public safety, health, utilities, and planning. Prereq: None.

4980/8986 Public Sector Labor Relations (3) This course deals with the origin, characteristics, and implications of public sector employee unions and how they relate to public sector personnel practices. Prereq: None.

4510/8516 Long-Term Care Administration (3) An investigation of the broad range of policy issues, theoretical concerns and practical management strategies influencing the design, organization and delivery of long-term care services. Prereq: Permission of instructor. (Same as GERO 8516)

4560 Special Topics in Urban Governmental Management (3) This course is directed at those who wish to improve their knowledge and understanding of intergovernmental relations and their impact on public administration in the United States. The course will look at history and theoretical underpinnings of intergovernmental relations, the different elements of these relationships, and recent specific management arenas that are affected by these relationships. Prereq: PA 2170 or permission of instructor.

4600/8600 Administrative Law (3) A review of the principal elements of the role and character of legal processes in government administration, including delegation of powers, legal forms of administrative action, liability of government units and officers and judicial review of administrative action. Prereq: None.

4890/8896 Special Topics in Public Administration (3) A course with the purpose of acquainting the student with key issues and topics of special concern to public and nonprofit management that they otherwise would not receive elsewhere. No more than six hours of total credit in PA 8896 and PA 8896 can be taken without prior permission by the graduate program committee. Further, each topic in the course will need the approval of the Dean of Graduate Studies prior to being offered. Prereq: None.

4900/8900 Special Topics (1-3) A variable content course with Public Administration and Urban Studies topics selected in accordance with student and faculty interest. Possible topics include urban, administration federalism and economic development, urban administration, administrative law, public administration, administrative law, and public administration. Prereq: None.

8030-8040 Internship (3 per sem.) Maximum of 6 hours to be granted upon completion of written report on internship. Internship in some government or educational, local, state or non-profit organization and in some instances public-oriented private agencies. Students will take the course as Credit/No Credit. Prereq: Thirty hours of MPA course work or permission of Graduate Program Committee.

8050 Survey of Public Administration (3) The purpose of this course is to introduce the student to the art and science of public administration and to enable the student to develop the knowledge, skills, and abilities requisite to the pursuit of graduate education in public administration. Prereq: None.

8060 Accounting and Financial Reporting for Public Managers (3) This course focuses on the basic elements of governmental and non-profit accounting and their managerial implications. The course is directed toward students who have completed the Master's of Public Administration Program and who wish to acquire knowledge of issues in the management of information in the public sector. Its primary focus is on special issues in the management of information. Prereq: None.

8200 Health Service Administration (3) This course is designed to familiarize students with the structure and management of health services systems in the United States. It addresses quality, access and cost of the health services delivery, personnel and funding resources, traditional and alternative health services delivery settings, and forces that shape the current and future health care sector. Prereq: PA 6240.

8300 The Policy Process (3) This course examines the formulation, adoption, implementation and evaluation of public policy. Important topics include the basics of American government, the causes and determinants of public policies, the dynamics of decision-making in the public sector, the obstacles to "successful" public programs, and the criteria for the assessment of a public program's impact. Special emphasis is given to the role public managers play within the policy process. Prereq: Permission of adviser.

8320 Public Policy Evaluation (3) This course is designed to familiarize students with the role of evaluation in the policy process, to demonstrate how to conduct and implement evaluations of public programs, and to illustrate the procedures for presenting an evaluation report to public officials and citizens. It introduces operational issues and problems associated with management of an office of policy evaluation, and to prepare for the exploration of conflicts and limitations inherent in public policy evaluation. Prereq: PA 8000.

8400 Public Budgeting (3) The purpose of the course is to familiarize public administration students with the basic characteristics and features of public budgets and enable them to deal competently with them. Prereq: None.

8410 Public Personnel Management (3) A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring and operating public bureaucracies are examined as well as problems in personnel management, including recruitment, promotion, and performance. Prereq: None.

8420 Organization Theory and Behavior (3) A study of the various approaches to understanding public organizations and people in them with special emphasis on the design, functioning and management of public agencies.
8440 Organization Development and Planned Change in the Public Sector (3) This course provides students with the theories and skills necessary to manage organizational change in the public sector. To accomplish this will require that the student become versed in the strategies of organizational development (OD) and planning in the public sector while at the same time mastering intervention techniques. Prereq: PA 8420.

8450 Seminar in Advanced Management Analysis in Public Agencies (3) A study of theory and method related to analysis of problems of organization and workflow in public agencies. The course includes problem analysis, field study methods, design of improved methods, selecting alternatives and developing decision packages. Prereq: PA 8420 or permission of instructor.

8460 Seminar in Public Personnel Administration (3) This course focuses on the principal considerations affecting the selection and utilization of personnel by government agencies. The emphasis is less in terms of description of processes than in terms of identifying and exploring solutions to problems. Prereq: PA 8410.

8470 Administrative Ethics (3) This course is designed to make students of public management aware of and sensitive to the ethical components of public sector administration. Ethical concerns permeate much of what public administrators do, and this course focuses on identifying common ethical concerns along with their implications and consequences. Prereq: None.

8480 Seminar in Public Financial Administration (3) The study of public finance administration policy and techniques areas. Emphasis is placed on the technical aspects of public finance administration with particular emphasis on the purposes, processes and issues associated with particular techniques or technique areas. Prereq: None.

8500 Issues in Public-Private Sector Cooperation (3) This course introduces students to the organization and processes, as well as to the tools and techniques, of public-private sector cooperation. The objective of such a course is to familiarize students with the concepts and skills needed to develop and administer joint activities between the public and private sectors. Such cooperative activities have become an important aspect of public administration in recent years. Prereq: None.

8550 Issues in the Administration of Non-Profit Organizations (3) This course focuses on the administration and management of non-profit organizations and the relationships between non-profits and government. Prereq: None.

8700 Marketing for Public and Non-Profit Organizations (3) This course will focus on developing a working knowledge of marketing and its component parts as they may be applied to non-profit organizations. Emphasis will be placed on understanding the marketing process and applying marketing principles to real organizational settings. Prereq: Graduate and permission of instructor.

8720 Health Care Finance (3) Health care finance represents an analysis of health care concepts, issues and trends form a health care and an organizational perspective. Application of specific principles, concepts and techniques of financial management to health care systems will be addressed. Examination of the role and responsibilities of health care administrators in relation to financial management will also be explored. Prereq: PA 8460.

8810 Seminar in Metropolitan Planning (3) 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. Prereq: UBNS 8068 or permission of instructor. (Same as GEOG 8810)

8920 Readings in Public Administration (1-3) 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 adjudged by the department to be capable of pursuing a highly independent course of study. Prereq: Eighteen hours in the MPA Program or permission of graduate program committee.

8950 Research Methods in General Management (3) This course will focus on the theories of negotiation and the negotiating process. Prereq: None.

8960 Research in Public Administration (1-3) The course is intended for advanced graduate students in public administration. It is especially suited for those in-career students who have had their internships waived and who might profit more by in-depth research on a problem of public administration rather than additional classroom courses. Prereq: Twenty-one hours in the MPA Program or permission of graduate program committee.

8980 Research Methods for Public Affairs (3) This course is designed to assist students develop their skills in qualitative analysis of information relevant to public affairs. The course introduces students to fundamentals of research designs, strategies of data collection and basic statistical analysis. Prereq: Permission of advisor.

9100 Seminar in Strategic Planning and Management in the Public Sector (3) This course is designed to have the student understand the relationship between public policy, agency strategy, agency operation and the delivery of public services to citizens. It will provide the student an opportunity to devise a model strategy for a public agency or jurisdiction, introduce a variety of systems for managing particular tasks within the public sector and give the student the opportunity to construct operating procedures for a specific public program or subprogram. Prereq: PA 8420 or permission.
SOCIAL WORK

PROFESSORS:
Andrews, Burch, Coyne, Dendinger, B. Hagen, J.Woody

ASSOCIATE PROFESSORS:
Barnett, McGrath, R. Russel, G. Weber

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 people's ability to function meaningfully and effectively in transactions with the environment (i.e., family, friends, associates and the community at large). Social workers bring systematized knowledge to bear on their 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 activities and interventions are designed to promote more effective functioning of society as it struggles to "provide for the general welfare" as well as to help people, families, groups, and institutions within the society achieve self fulfillment.

The School of Social Work is accredited by the Council on Social Work Education (CSWE), the national accrediting body for all social work education.

Special Procedures for Admission to the School of Social Work Graduate Program

The School of Social Work has special admission procedures in addition to those required by the College of Graduate Studies and Research. Students are encouraged to complete the application process early (e.g., by March 1 for fall admission and October 1 for spring admission.) Students entering the 63 hour program may start only in the Fall semester. Advanced Standing students may enter the 39 hour program in the fall and spring.

Applicants for graduate social work education should obtain an admission packet from the Admission Secretary at the School of Social Work. Each applicant will be required to file with the UNO Office of Admissions the following:

1. An Application for Graduate Study at the University of Nebraska at Omaha.
2. An official transcript from each school attended of all undergraduate (and graduate, if any) college work.

All applicants to the School of Social Work are required to take the Graduate Record Examination or the Miller Analogy Test and have the results sent to the Graduate College and the School of Social Work before the application is reviewed by the Admissions Committee.

The applicant also will submit, directly to the School of Social Work, the following:

1. three reference letters
2. employment information
3. a personal statement

The proper forms for the above three items are in the admissions packet distributed by the School of Social Work. All materials must be received by the School before the Admissions Committee will review the file.

The Admissions Committee has the responsibility to determine the applicant's suitability for the profession and reserves the right to request an interview and/or additional evaluative material.

The School of Social Work reserves the right to change admission and graduation requirements in order to remain in compliance with the Accreditation Standards of the Council on Social Work Education.

Requirements for the Degree of Master of Social Work

1. The M.S.W. program consists of two parts, the Foundation Program, which includes generalist knowledge and skills common to all professional social workers, and an Advanced-Standing Program, which includes opportunities for in-depth specialization in practice methods and in specific fields of practice. The 24 hours of foundation courses along with the 39 hours in the advanced program comprise the two year program.

Foundation Program

Students who have earned a Bachelor's degree but have not completed an accredited undergraduate social work program may enter the Foundation Program. Many of the foundation courses may be waived by students who successfully pass the waiver exams.

Advanced-Standing Program

The Advanced-Standing Program is for students who have earned a BSW from an accredited program and those who completed the Foundation Program. It requires a minimum of 39 hours in graduate social work study concentrating in one of these areas:

Micro Social Work — practice with individuals, families and small groups.

Macro Social Work — practice in the areas of policy, planning, administration, organizing and social change.

A combination of macro/micro — by selective use of electives and practicum.

National accreditation standards require a minimum of two courses per semester and the M.S.W. program must be completed within four years.

2. Completion of an undergraduate biology course or equivalent is required before entry into the program.
3. Details about research, practicum and other course requirements as well as waiver examinations may be obtained from the School of Social Work.

4. A final written comprehensive examination is required.

5. See the School of Social Work Student Handbook for other requirements.

6. The Director of the School of Social Work may approve loads to 15 hours for Social Work majors.

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

NOTE: Social Work students may transfer course work required for the MSW program. Courses must be approved by the School of Social Work Graduate Program Committee and the Dean of Graduate Studies and Research as being appropriate substitutes for a requirement or elective.

Courses Descriptions

Foundation

8000 Human Behavior and the Social Environment (4) A foundation course providing basic knowledge of the contributions of the biological, behavioral and social sciences to understanding of human functioning in transaction with social structure. Prereq: Graduate Social Work student or permission of School.

8050 Social Welfare Policy, Services and Analysis (4) An examination of social policy development and the functioning of specific delivery systems together with beginning policy analysis embodying socioeconomic, political, legal and psychological contexts. Prereq: Graduate Social Work student or permission of School.

8060 Institutional Racism and Sexism (2) This course examines the problems and issues of institutional racism and sexism as it relates to social injustice. The focus is on the causes of institutional racism and sexism and its effects on the individual, groups, families and institutions. The course will concentrate on the analysis of related institutional barriers and constraints affecting racial minorities, homosexuals and women. Discussion will be directed at increasing the awareness and appreciation of the issues and problems of institutional racism and sexism, and the advancement of strategies to eliminate the problems. Consideration will be given to the role of social work practice for the removal of Institutional barriers for racial minorities, homosexuals and women. Prereq: Admission to Graduate Social Work program.

8100 Social Work Practice I (Generic) (2) This course is designed to serve as an introduction to the common core of concepts, skills, tasks and activities which are essential to the practice of social work and which serve as a foundation for further professional growth. Prereq: SOWK 8000 prior to or concurrently with SOWK 8120 Social Work Practice II (Macro) (2) An introductory course providing an overview of three basic theories of social work practice with individuals, families and small groups. The emphasis is on assessment of social situations leading to a choice of intervention appropriate to working with individuals, small groups or families. Prereq: SOWK 8000, 8100.

8140 Social Work Practice III (Macro) (2) This is an introductory course for graduate social work students which surveys basic theories and principles of social work practice with organizations, institutions and communities, and includes study of social action, community development and community organization. Prereq: Concurrent with or subsequent to SOWK 8000, 8020, and 8100 or permission of School.

8160 Generic Social Work Practicum I (3) This course is designed to provide individualized and experiential learning offered within the setting of a social service agency. The student will be introduced to a variety of social work practice roles, develop professional relationships with client systems and learn to apply a number of interventive modalities to effect change. In order to facilitate integration of classroom theory with practice, students will attend bi-monthly two-hour seminars. Prereq: Concurrent with or subsequent to SOWK 8100.

8170 Generic Social Work Practicum II (3) This course is designed to provide supervised individual learning experiences, in selected social welfare agencies. It is designed to introduce graduate students to beginning micro and macro social work practice. Prereq: SOWK 8160, concurrent with or subsequent to SOWK 8120, 8140.

Micro Practice

8200 Micro Systems and Intervention I (3) An advanced course providing an in-depth study of the theory and techniques of several major therapeutic modalities used with individuals and consideration of their use with families and groups. Prereq: SOWK 8170 or BSW.

8210 Group Dynamics and Intervention (3) To provide the student with knowledge of theories and practices in group techniques, the student will work in groups with emphasis on specific situations such as school health education, child development and service agencies. Prereq: SOWK 8200 or permission of School.

8240 Social Work Practice with Children (3) This advanced micro practice course offers an overview of several social work interventions used with children and adolescents. A brief review of normal child development and the family life cycle is the context for presenting a range of children's problems and special needs. The course will cover several intervention models and address their application in various service settings and in individual, group, family, and social action formats. Issues relevant to providing clinical services to minority clients will also be covered. Prereq: Admission to the M.S.W. program and SOWK 8200 or permission.

8250 Family Analysis and Treatment (3) The family is considered as a system of social work intervention. Several theories of family interaction are considered; alternative modalities of family treatment are assessed; interventive skills are developed. Prereq: SOWK 8200 or permission of School.

8260 Gestalt-Transpersonal Analysis (3) An intensive didactic and experiential course designed to give students in-depth knowledge and practice skills in the combined use of transpersonal analysis (TA) and Gestalt therapy. Prereq: SOWK 8200 or permission of School.

8270 Analysis and Treatment of Sexual Problems (3) The course provides a brief intensive review of current theory and research in human sexuality and an emphasis on treatment and therapy approaches used for a variety of sex-related problems of individuals, couples and families. Prereq: SOWK 8200 or permission of School.

8280 Marriage, Divorce and Remarriage Therapy (3) This is an advanced practice course designed to prepare students to provide therapy for couples and families experiencing problems in intimacy, marital, divorce or remarriage adjustment. Prereq: For social work students, SOWK 8200; for others, professional practice course equivalent to SOWK 8220, to be determined by course instructor.

8290 Clinical Seminar in Mental Health (3) The course utilizes a seminar format to explore and discuss various aspects of clinical practice in a mental health setting. The seminars include focus on theoretical foundations of assessment and treatment, application of mental health practice skills to the clinical setting and relationship of theory to specific skills. Prereq: Bachelors degree and experience in clinical settings; SOWK 8200 or permission of the School.

Practicum

8400 Advanced Social Work Practicum I (3-4) To provide individualized professional experience in micro or macro social work practice. Prereq: SOWK 8170 or BSW, SOWK 8200 prior to or concurrent with micro placement, or one of the following: SOWK 8500, 8520, 8540, 8580 prior to or concurrent with macro placement and permission of School.

8410 Advanced Social Work Practicum II (3-4) To provide individualized professional experience in micro or macro social work practice, building upon opportunities provided and competence achieved in Advanced Practicum I. Prereq: SOWK 8400 plus one advanced micro practice course prior to or concurrent with SOWK 8410 (SOWK 8210, 8240, 8250, 8260, 8270, 8280, 8290) for micro placement; SOWK 8400 and a second one of the following: SOWK 8500, 8520, 8540, 8580 prior to or concurrent with macro placement.

8420 Advanced Social Work Practicum III (1-4) To provide a third advanced practice opportunity in a selected social welfare agency or practice setting for refinement/addition of micro or macro social work practice skills. Prereq: SOWK 8410 and permission of School.

Macro Practice

8500 Social Development (3) An analysis of the social development model for effecting social and societal change. The concept of social development was introduced by the United Nations, has been adopted by many developing nations and is gaining increased utilization in developed nations including the United States. The course is offered for students working towards a Masters degree in Social Work with an emphasis on macro social work practice. Prereq: SOWK 8140 and 8170 or BSW, or permission of School.
SCHOOL WORK

8520 Social Work Administration (3) A study of the role of the social work administrator in the creation and administration of social service agencies of varying sizes. Prereq: SOWK 8140, 8170 or BSW, or permission of School.

8540 Social Welfare Planning (3) An advanced course in social planning, including administrative planning for social services, comprehensive planning for social welfare programs and planning for social change. Prereq: SOWK 8140, SOWK 8170 or BSW, or permission of School.

8550 Supervision in Social Work (3) To provide the student with knowledge of theories and practice in techniques used in supervising paid or volunteer staff in social agencies, with emphasis on the leadership and helping functions of the supervisor in both educational and administrative roles. Prereq: SOWK 8170 or BSW, or permission of School.

8580 Social Work, A Social Action, Change & Political Advocacy (3) An advanced policy course in intervening and influencing social welfare policy at various points in the political system. Prereq: SOWK 8140, 8170 or BSW, or permission of School.

Social Problem/Condition

4010/8016 Social Work with American Indians (2) This course provides the student with a broad study of the origins, influences and issues of the American Indian which affect social work practice. The usefulness of established social work generic methods is explored. Alternative methods applicable to culturally diverse people are presented. Experiential learning is emphasized. For social work students, the course meets the minority or social problem/condition/system requirement. Prereq: 8160 or BSW, or permission of School.

4020/8026 Social Work with Black Youth (2) This course seeks to develop in students an awareness and understanding of some of the social and psychological/cognitive realities influencing the behavior of black youth. The content draws upon theories, research and social work practice skills relevant to black youth, the cognitive process, and social systems which impact on black youth. Practice implications are emphasized. For social work students, the course meets the minority or social problem/condition/system requirement. Prereq: BSW or concurrent with or subsequent to SOWK 8000 and 8050, or permission of School.

4030/8036 Social Work with Hispanics (2) This course is intended to develop in students awareness, familiarity and understanding of some of the social conditions and cultural traits of the Hispanic community with special emphasis on Mexican-Americans. This course will be the foundation for the adaptation of the social worker's practice to meet the specific needs of this ethnic community. Prereq: BSW or concurrent with or subsequent to SOWK 8000 and 8050, or permission of School.

4040/8046 Working With Minority Elderly (3) This course is an interdisciplinary one, designed to provide the student with knowledge of the differing status, attitudes and experiences of the elderly within four major minority groups and to examine various service systems and practice models in terms of their relevance and effectiveness in meeting needs of the minority elderly. Prereq: BSW or concurrent with or subsequent to SOWK 8000 and 8050, or permission of School.

4100/8106 Permanence for Children (3) The course is designed for the student to acquire an understanding of the issues involved in providing services to those persons who have been affected by dependency, child abuse and neglect and to acquire skills in working with children, biological parents, foster parents, adoptive parents and other systems involved in the welfare of children. Fulfills either social problem/condition or graduate micro practice elective requirements. Prereq: SOWK 8100, SOWK 8866, or permission of School.

4600/8600 Social Work in Mental Health (3) This course is an elective for the advanced student who is seeking substantial specialized knowledge of current social work practice in mental health and mental retardation. Prereq: SOWK 8000 or BSW, or permission of School.

20 Week 4610/6610 Social Work and Family Violence (3) This course explores the problem of family violence in American society. It includes characteristics of abuse, description of victims of abuse, and prevention and intervention strategies using societal systems. Prereq: SCW 8000 or BSW degree

4630/8630 Social Work in Health Care Programs (3) A critical review of the practice of health care programs; as it was, its current status, emerging trends and the potential for change. Prereq: SCW 8000 or BSW or concurrent with or subsequent to SOWK 8520, or permission of School.

4800/8800 Social Work, Psychology and the Law (3) An examination of some of the legal aspects of selected social welfare policy issues such as abortion, illegitimacy, alcoholism and drug addiction, creditor and debtor's rights, landlord and tenant relationships, housing law, right to treatment, status of the convicted individual, mental health commitment procedures. Prereq: SOWK 8050 or permission of School.

4850/8856 Hospice and Other Services for the Dying Patient/Family (3) This course is designed to involve students in the recognition of fears, concerns and needs of dying patients and their families by examining the hospice concept and other services available. Prereq: SOWK 8100 or permission of School. (Same as GER0 4850/8856)

4860/8866 Women's Issues and Sexism: A Social Work Perspective (3) This course will focus on the issues of feminism and sexism in social work practice and their implications for social service delivery systems, social policy and practice modalities. Prereq: SOWK 8100 or permission of School.

4880/8888 Topical Seminar in Social Work (2-4) Advanced topics and experiences in social work theory and practice. Specifics will be announced when the course is offered. The topics selected will be consistent with faculty expertise and student needs. This course may be repeated for up to nine hours credit. Prereq: Graduate.

8240 Social Work Practice with Children (3) This advanced micro practice course provides an overview of several social work interventions used with children and adolescents. A brief review of normal child development and the family life cycle is the context for presenting a range of children's problems and special needs. The course will cover several intervention models and address their application in various service settings and in individual, group, family, and social action formats. Issues relevant to providing clinical services to minority clients will also be covered. Prereq: Admission to the M.S.W. program and Micro Intervention (SOWK 8200) or permission.

8570 The Human Ecology of Child Abuse and Neglect: An Analysis of Research and Intervention (3) This course will provide a review of the existing literature on the meaning, origins and consequences of child abuse and neglect. It will emphasize research issues in child abuse and neglect, and the student will design a research project. This serves as a research course or social problem/condition/system requirement. Prereq: SOWK 8920.

8700 Alcohol Abuse: Comprehensive Treatment Programs (3) An examination of problems and processes related to alcoholism which are common in a social work setting. Special emphasis is given to detection, intervention, referral, etiology and treatment alternatives and resources. Special Studies and Social Welfare Research.

8900 Special Studies in Social Welfare (1-3) Special studies in a selected area of social welfare for deepening the student's knowledge in that particular area. Prereq: Permission.

8910 Independent Studies in Marriage and Family Therapy (1-3) This course offers the opportunity for deepening of the student's knowledge and skills in selected areas of marriage and family therapy. Requires permission of a faculty member who will supervise the student, and also requires written approval of the special studies coordinator prior to enrollment. May be repeated for up to six hours credit. Prereq: Graduate standing and permission of school.

8920 Seminar in Utilization of Research in Social Work (3) Emphasis is placed on the use of research in social work practice. Social and behavioral science research methods will be reviewed. Research reports exemplifying the methods will be evaluated; theories, major concepts, principles and findings will be identified, and their use in social work practice will be explored. Research on racism, minorities, social status, disabilities and Third World peoples will be reviewed. Statistics used in the studies will be reviewed. Prereq: Introductory research methods course and introductory statistics course.

8940 Evaluation of Social Programs (3) A study of the various issues and methodology of social program evaluation. Evaluation of agency organizational structure, program design and effectiveness and social impact will be covered. Prereq: SOWK 8520, or permission of School.

8950 Research Other Than Thesis (3) Students prepare a research proposal, carry out the proposed study and prepare a detailed report of the purpose, design, outcomes, conclusions and implications of the study. Prereq: SOWK 8920 and permission of School.

8990 Master's Thesis (6) Under the supervision of the thesis instructor and the thesis committee, the student will complete a thesis research. Prereq: SOWK 8920 and permission of School.
SOCIETY

PROFESSORS:
Lamanna, Littrell, Rousseau, Wheeler

ASSOCIATE PROFESSORS:
Clute, Skreija

ASSISTANT PROFESSORS:
Hass, Simpson

COURTESY FACULTY:
Suzuki, Greer

Degree Requirements
Applicants for admission to the graduate program in sociology should present a minimum of 15 undergraduate semester hours in sociology including courses in statistics, research methods, and theory. Students must also submit a short essay describing their goals and their perception of how graduate work in sociology may help them achieve their goals.

Students must also present scores from the general part of the Graduate Record Examination before admission or during the first semester of enrollment.

Students without the specific course requirements may be admitted provisionally but must remove any deficiencies within the first year of graduate study. Applicants who are admitted provisionally without statistics must pass SOC 2130, Basic Statistics with a grade of "C" or better. Required competence in undergraduate research methods may be demonstrated by taking SOC 2510 for credit with a grade of "C" or above or by taking a program of independent work approved by the graduate committee. SOC 4710 satisfies the theory requirement.

The MA degree should be sought by students preparing for college-level teaching and continued academic work; the MS degree, by students preparing for field or action application of sociology.

The sociology department is in the process of modifying its graduate programs. Students applying for fall 1983 and later should consult the department regarding new admission and degree requirements.

Master of Arts
Students must complete two graduate only level method courses and two graduate only level theory courses with grades of "B" or better, and must pass a comprehensive examination in a special area. Students must also complete a minimum of 18 additional graduate semester hours. Courses in applied work are recommended. Students must satisfactorily complete six semester-hour equivalents of a supervised work practicum (approximately 200 hours), and write an acceptable report about the experience.

Course Descriptions

Anthropology
4200/8206 Urban Anthropology (3) The course is intended to examine the city from an anthropological point of view. Included will be an overview of its history and the processes by which cities are formed and grow as well as the internal structure and processes within the city. The course is intended to be comparative geographically and temporally. Topics covered will include urbanization and cities in both the so-called "third-world" countries as well as in the developed, industrialized ones. Graduate students will be required to do a substantive term paper on a topic mutually acceptable to both the instructor and the student. In addition to the written work, the student will also be required to make an oral presentation in class of the research done and the major findings. Prereq: Permission of instructor.

4210/8216 Cultural Anthropology (3) Arts, economics, family, kinship, politics, religion, subsistence, technology, war and world view as parts of an integrated whole, a way of life in human society. Illustrations will be drawn from a number of societies, anthropological theories and methods of study. Prereq: Permission of instructor.

4220/8226 North American Archaeology (3) 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. Prereq: For 4220, ANTH 1050 or 4210. For 8226, permission of instructor.

4520/8526 Psycholinguistics (3) 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. Prereq: Senior or graduate or permission of instructor. Recommended: ANTH 1050. (Same as PSYCH 4520/8526 and COMM 4520/8526)

4520/8526 Seminar in Anthropological Problems (3) Seminar will cover a specific topic which will be announced each time the course is offered. The students will work with the instructor on projects designed to increase the student's depth of knowledge in specific areas. Prereq: Permission of instructor.

Sociology
4200/8206 Collective Behavior (3) Group and individual processes of ephemeral social action and institution formation are studied. The development of transitory groups and ideologies in new movements and organizations through opinion formation; case and comparative investigations of the origins and growth of collective movements are made and relevant social theories are applied. Prereq: For 8206, permission of instructor.

4100/8106 The Community (3) 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. Prereq: For 8106, permission of instructor.

4100/8106 Sociology of Deviant Behavior (3) A theoretical analysis of the relation of deviant group behavior and subcultures to community standards of conventional behavior as expressed in law and norms. Prereq: For 4100, nine hours of sociology including SOC 1010. For 8106, permission of instructor.

4100/8146 Urban Sociology (3) Examines urban theoretical perspectives, urbanization processes, the diversity of metropolitan communities, urban stratification, metropolitan growth, urban neighborhoods, community power and urban policy and planning. Prereq: For 8146, permission of instructor. (Same as GEOG 4140/8146)
4150/8156 American Family Problems (3) A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society. (2) An analysis of failures of function and attendant problems in a variety of American families: Parent- youth tensions, problems of sexual adjustment, role conflict, multiproblem families, desertion, divorce, others. Prereq: For 8156, six hours of social science or permission of instructor.

4410/8416 Advanced Qualitative Methods (3) This course familiarizes students with contemporary qualitative methodologies and techniques by which the social sciences explore social and cultural relations in natural settings. Students will conduct individual and group field projects. Prereq: Permission of instructor.

4500/8506 Law, the Family and Public Policy (3) This course analyzes law and public policy affecting the family in a variety of areas, which includes: family violence; divorce, child custody, and child support; reproductive technology, contraception, and abortion; unmarried couples' and parents' rights; welfare; care and support of the aged; rights of parents to determine education and health care of their children; adoption and foster care, etc. New policy proposals and likely changes in law are considered, as well as the process of policy formation and legal change. The role of the professional in this system, including legal regulation and ethical issues, is considered. Prereq: Six hours social science or human services or permission.

4620/8626 Sociology of Formal Organizations (3) Examines organizational theory and research. Analyzes organizational problems such as goals and effectiveness; authority, leadership and control; professionals in organizations; communications; client organizational change; and organizations and their environments. Comparative analysis of many types of organizations such as business, industry, schools, prisons and hospitals with special attention given to human-service organizations. Prereq: Permission of instructor.

4750/8756 Social Change (3) A discussion of theories and the basic models of change. Case and comparative examples from contemporary and historical change. Emphasis is placed on understanding causes and effects of changes taking place in America society. Prereq: 8756, permission of instructor.

4800/8806 Contemporary Topics in Sociology (3) This course reviews research and writing in an area which is of current interest in the field of sociology. The specific topics to be covered will be announced at the time the course is being offered. Since the topic will vary, students may elect to take this course more than once. Prereq: Permission.

4820/8826 Team Research Seminar (3) Students participate in a semester-long class research project. Students will be involved in all stages of research: problem formulation, literature review, research design, measurement construction, data collection, data analysis, report writing and presentation of findings. The projects focus will vary, but it may often involve issues confronting Omaha, a particular organization or a specific group of people. Prereq: Permission of Instructor.

4850/8856 Sociology of Mental Illness (3) The sociological perspective on mental illness is contrasted with other perspectives. The course covers the conceptualization of mental illness, epidemiology and etiology; the role of the family; careers of mental illness; the mental hospital; the patient-therapist relationship and therapeutic modes; mental health professionals; community health; and legal issues. Prereq: Six hours social science or permission of instructor.

4850/8856 Sociology of Religion (3) 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-term sequence, undergraduate and graduate. Prereq: For 8856, permission of instructor.

4990/8996 Independent Study (1-3) May be repeated with permission of the chairperson of the Graduate Committee. Guided reading in special topics under the supervision of a faculty member. Prereq: For 8996, permission of instructor.

8010 Sociological Theory I (3) First of two theory courses required of all Master's degree candidates in sociology. The course emphasizes the theoretical issues associated with sociological processes of modern societies: urbanization, industrialization, bureaucratization and the emerging world order. Student writing skills as well as the conceptual and historical setting of major theorists who deal with these processes are emphasized. Prereq: Graduate; permission of instructor if outside department of sociology/anthropology.

8020 Sociological Theory II (3) The second of two theory courses required of all Master's degree candidates in sociology. The course emphasizes central theoretical and conceptual issues within sociological theory. Student writing skills as well as the conceptual materials will be emphasized. Prereq: Graduate; permission of instructor if outside department of sociology/anthropology.

8030 Research Methods I (3) This course is one of two in research methodology required of departmental graduate students. It gives a broad, intermediate-level coverage to social science research methodology, with an emphasis on the logic of research procedures. Topics covered include the relationship of theory and research, causality, analysis, sampling, experimental design, methods of data production and introduction to computer usage. Prereq: Graduate, a course in Statistics and Methods and permission of instructor.

8040 Research Methods II (3) The second of two courses required of departmental majors in graduate work, and covers topics in intermediate statistics applied to behavioral research. Topics include a review of basic statistics, simple and multiple regression, analysis of variance, path analysis, and more advanced topics as time permits. Appropriate computer packages are utilized. Prereq: SOC 8020 or equivalent, and permission of instructor.

8050 Seminar in Social Psychology (3) 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, this course may be repeated in a student's program without implying duplication. Prereq: Permission of Instructor.

8110 Social Problems of the Disadvantaged (3) A survey of the social problems existing in disadvantaged communities. The effects upon individuals of such settings. The subculture of poverty. Prereq: Graduate and permission of instructor.

8120 Seminar in Social Gerontology (3) A topical seminar focusing on the sociology of aging. Students are encouraged to develop proposals for research, programs or social policy. Focus is upon generational differences and age changes throughout the adult life. Prereq: Permission of instructor.

8150 Seminar In the Sociology of Religion (3) A seminar dealing with religion as a social and cultural phenomenon. The study theme will vary from time to time in keeping with the special interests of the instructor. As seminar topics vary, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

8260 Seminar in Social Organization (3) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social organization selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

8300 Seminar In Occupations and Professions (3) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to the sociology of occupations and professions. Questions relating to theory, research and practical application are considered. Prereq: Graduate and permission of instructor.

8700 Seminar In Sociological Theory (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociological theory selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

8990-8999 Practicum In Applied Sociology (Each 3) A practical work experience under supervision which provides opportunity for applying principles from the student's academic area of concentration. Prereq: Graduate sociology major for the MS degree.

8990 Thesis (1-6) 9110 Applied Social Gerontology (3) An overview of social gerontology with an emphasis on the interplay between social, psychological and physical elements in later life. Restricted to graduate students only. Required of Geronotogist students. Prereq: Graduate. (Same as GERO 9110)
4. Submission of all required materials and documentation is not a guarantee of acceptance to graduate school.

Graduate-Level Student Teaching/Practicum
All students in this department must obtain the permission of the student's academic advisor prior to applying for and registering for student teaching or a practicum. The deadlines for submission of applications for student teaching/practicum are March 1 for the following summer or fall semester placement, and October 1 for the subsequent spring semester placement. Students may be removed from their placement at the request of the student, department or school district/agency. All students must complete at least one all-day student teaching or practicum experience in their endorsement area.

Special Education and Communication Disorders Programs
Master of Arts: Speech-Language Pathology
The Master of Arts degree with a major in speech-language pathology involves these requirements:

1. Admission to the University of Nebraska Graduate College.

2. The student must pass an examination to determine adequate personal voice and speech proficiencies and adequate hearing acuity for speech (administered at the Speech and Hearing Clinic of the University).

3. The student must have successfully completed a minimum of 39 semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
   - SPED 1400 Introduction to Communication Disorders
   - SPED 4330 Aural Rehabilitation
   - SPED 4370 Basic Audiology
   - SPED 4380 Speech Science I: Speech Mechanisms
   - SPED 4390 Hearing Science
   - SPED 4420 Language Development in Children
   - SPED 4430 Articulation Disorders
   - SPED 4440 Rhythm and Symbolization
   - SPED 4490 Pre-Clinical Observation and Assessment in Speech Pathology
   - SPED 4450 Speech Science II: Experimental and Applied Phonetics
   - SPED 4500 Communication Disorders
   - SPED 4510 Basic Clinical Practicum in Speech Pathology
   - PSYCH 2130 Statistics for the Behavioral Sciences

4. For those students who wish to work toward a teaching certificate in Nebraska schools, advisor consultation should be sought early since additional course work and a Pre-Professional Skills Test (PPST) 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).

5. A minimum of 40 semester hours of course work, thesis and practicum. These hours must include the following:
   - SPED 8000 Special Project in Diagnostics
   - TED 8010 Introduction to Research
   - SPED 8420 Advanced Studies in the Disorders of Voice

Programs in Special Education and Communication Disorders are offered by the Special Education and Communication Disorders Department. Admissions examinations for programs in this department are identified in the General Information section of this catalog. Deadlines are as published.

Application for Admission
Student Responsibilities

1. Students must adhere to the admissions procedures and regulations which appear in the Special Information for Graduate Students section of this catalog.

2. Students must submit a current transcript of credits from a college or university showing a Bachelor's degree or its equivalent earned. The transcript must be submitted prior to admission. In addition to the transcript and an application for admission, the student must provide the department with:
   a. Two letters of reference from persons who know well the student's undergraduate academic work, the student's potential to do graduate work, and/or the student's professional competence;
   b. A personal letter of application covering such topics as interest, experience and career goals;
   c. Score on either the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT).

3. Under unusual circumstances, the student may apply for temporary admission in the Mental Retardation or Emotionally Disturbed Programs. However, temporary admission will not be granted in other departmental programs. These students may be granted temporary admission if they submit a transcript of credits as outlined in number two above and, within the first eight weeks of the student's first semester, provide the department with all the documentation listed in sections "a," "b" and "c" above. Students who do not complete the admission application process within the first eight weeks of the semester (two weeks in the summer) will be disenrolled.

4. Submission of all required materials and documentation is not a guarantee of acceptance to graduate school.
SPECIAL ED AND COMMUNICATION DISORDERS

SPED 8430 Advanced Studies in the Disorders of Rate and Rhythm
SPED 8440 Advanced Studies in the Disorders of Aphasia and Related Problems
SPED 8460 Diagnostic Methods in Communication Disorders
SPED 8470 Speech Science III: Neurophysiology of Speech and Language
SPED 8480 Advanced Audiology
SPED 8500 Basic Clinical Practicum in Speech Pathology
SPED 8510 Advanced Clinical Practicum in Communication Disorders (Schools)
SPED 8520 Advanced Clinical Practicum in Communication Disorders (Hospitals and Rehabilitation Centers)*
SPED 8530 Seminar in Speech Pathology
SPED 8580 Thesis (6 hours)

6. Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the committee, following oral examination. This examination is in defense of the thesis.

7. The student must pass the written comprehensive examination selected by the faculty.

*Placements for this practicum are made as space permits.

Master of Science:
Speech-Language Pathology
The Master of Science degree with a major in speech-language pathology involves these requirements:

1. Admission to the University of Nebraska Graduate College.

2. The student must pass an examination to determine adequate personal voice and speech proficiencies and adequate hearing acuity for speech (administered at the Speech and Hearing Clinic of the University).

3. The student must have successfully completed a minimum of 39 semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
   SPED 1460 Introduction to Communication Disorders
   SPED 4330 Aural Rehabilitation
   SPED 4370 Basic Audiology
   SPED 4380 Speech Science I: Speech Mechanisms
   SPED 4390 Hearing Science
   SPED 4420 Language Development in Children
   SPED 4430 Articulation Disorders
   SPED 4440 Rhythm and Symbolization
   SPED 4450 Speech Science II: Experimental and Applied Phonetics
   SPED 4500 Communication Disorders in the Elementary and Secondary Schools
   SPED 4490 Pre-Clinical Observation and Assessment in Speech Pathology
   SPED 4510 Basic Clinical Practicum in Speech Pathology
   SPED 4750 Language Disorders in Childhood
   PSYCH 2130 Statistics for the Behavioral Sciences

4. For those students who wish to work toward a teaching certificate in Nebraska schools, adviser consultation should be sought early since additional course work and a Pre-Professional Skills Test (PPST) 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).

5. Forty semester hours of course work and practicum. These hours must include the following:
   Required Courses
   SPED 8000 Special Project in Diagnostics
   TED 8010 Introduction to Research
   SPED 8420 Advanced Studies in the Disorders of Voice
   SPED 8430 Advanced Studies in the Disorders of Rate and Rhythm
   SPED 8440 Advanced Studies in the Disorders of Aphasia and Related Problems
   SPED 8460 Diagnostic Methods in Communication Disorders
   SPED 8470 Speech Science III: Neurophysiology of Speech and Language
   SPED 8480 Advanced Audiology
   SPED 8500 Basic Clinical Practicum in Speech Pathology
   SPED 8510 Advanced Clinical Practicum in Communication Disorders (Schools)
   SPED 8520 Advanced Clinical Practicum in Communication Disorders (Hospitals and Rehabilitation Centers)*
   SPED 8530 Seminar in Speech Pathology

Elective Courses in Communicative Disorders
Students may choose any of the courses in the area numbered 8000 or above.

Elective Courses in Related Area
Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, gerontology, speech, English, special education and other related areas, subject to adviser approval.

6. The student must pass the written comprehensive examination selected by the faculty.

*Placements for this practicum are made as space permits.

Master of Science:
Teaching the Hearing Impaired
The Master of Science degree in Teaching of the Hearing Impaired is based on the standards for professional preparation as promulgated by the Council on Education of the Deaf (CED). Graduates will be eligible for Provisional or Professional (depending on previous training and experience) Level Certification from CED. The program is approved by CED as a teacher preparation program. Students in the Master's degree program will
complete a core of course work in hearing impairment and additional course work in a related area. Course work in related areas will be based on individual students' needs and professional goals. All course work must be approved by the program(s) adviser(s).

The Master of Science degree involves the following requirements:

1. Admission to Graduate Studies at the University of Nebraska.

2. Program Admission
   In addition to the materials submitted in "1.", individuals applying for admission to the program also must meet the following requirements:
   a. Have an undergraduate degree in teaching the hearing impaired; or hold valid certification/endorsement as a teacher of the hearing impaired; or have successfully completed the following courses or suitable equivalents:
      - EDUC 2510 Applied Special Education
      - SPEC 4220 Teaching Speech to the Hearing Impaired
      - SPED 4240 Teaching Language to the Hearing Impaired
      - SPED 4250 Manual Communication
      - SPED 4250 Advanced Manual Communication
      - SPED 4300 Aural Rehabilitation
      - SPED 4350 Teaching Content Subjects to the Hearing Impaired
      - SPED 4370 Basic Audiology
      - SPED 4390 Hearing Science
      - SPED 4200 History, Psychology, and Sociology of Deafness
      - SPED 4450 Speech Science II: Experimental and Applied Phonetics
      - SPED 4720 Basic Student Teaching
      - SPED 4730 Advanced Student Teaching
   b. Comply with admission policies for the Department of Special Education and Communication Disorders as specified in this catalog.

   Applicants who do not meet requirement "b." may complete certification/endorsement course work prior to being admitted to the Master's degree program. Course work taken to meet these requirements cannot be counted toward completion of the Master's degree. Following fulfillment of these requirements ("b."), individuals must formally apply for admission to the degree program. Fulfillment of the prerequisite requirements does not guarantee admission to the degree program.

   NOTE: Students in graduate studies who have "unclassified" status or who have been admitted to another graduate degree program still must satisfy all requirements ("a." and "b.") before they will be considered for admission to the Master's program in Hearing Impairment.

**PROGRAM REQUIREMENTS**
A minimum of 39 hours of course work and practica are required. (Students may complete a thesis with the advice and consent of the faculty adviser. If a student elects to complete a thesis, the program would require 42 semester hours and would be extended accordingly.) The required hours shall be taken from the following:

1. **Required Courses – 24 hours**
   - TED 8010 Introduction to Research
   - SPED 8200 Research in Hearing Impairment
   - SPED 8240 Advanced Studies in Communication and Language
   - SPED 8280 Sociological Impacts of Deafness
   - SPED 8290 Learning and Literacy in the Hearing Impaired
   - SPED 8350 Curriculum Development and Adaptation for the Hearing Impaired
   - SPED 8480 Advanced Audiology
   - SPED 8720 Practicum in Special Education

2. **Elective Courses in Related Area – 12 hours**
   Students must choose courses designated for graduate students only. Choices should reflect the interest and professional goals of the students and should constitute a concentration of work in a certain area. For example: administration and supervision; reading; learning disabilities; special education; counseling. All course work selected in a concentration area must be approved by the program adviser and must be included in the student's plan of study.

3. **Other Electives – 3 hours**
   Students may select any graduate-level courses in special education, hearing impairment or communication disorders. This may include courses offered at the University of Nebraska-Lincoln. Elective courses must be approved by the program adviser and must be included in the student's plan of study.

4. **Competency in simultaneous communication (sign language) is required before practicum assignments will be initiated.**

5. **Students must pass a written comprehensive examination or complete the requirements for a thesis.**

**RETENTION REQUIREMENTS**

**QUALITY OF WORK STANDARD**
Students must meet the "Quality of Work Standards" as specified in the Graduate Catalog. Students will be dropped from the Program for the following:

1. Failure to maintain an overall GPA of 3.0 in graduate work.
2. Failure to achieve a grade of "B" or better in each required course. (See Section 1 in the Program Requirements.)
3. Receiving nine (9) hours of graduate credit with a grade of "C" or "C+.
4. Receiving a grade less than "C" in any courses included in the plan of study.
Master of Arts: Mental Retardation
The Master of Arts degree with a major in Mental Retardation is a program designed for a person wanting to focus his/her graduate study in the area of mental retardation with an emphasis on investigating a research project through the completion of a thesis. Any student seeking an endorsement must complete all certification requirements in addition to the six hour thesis. A written examination is not required of students in this program. Students will be required to answer questions about course work completed in the master's degree program during their thesis defense.

The Master of Arts degree with a major in Mental Retardation involves these requirements.
1. Admission to the University of Nebraska Graduate College.

2. Required Courses
   TED 8010 Introduction to Research .................. 3
   SPED 8030 Special Education Alternatives .......... 3
   SPED 8800 Mental Retardation ........................ 3
   SPED 8900 Thesis .................................... 6

   The remaining courses will be selected in consultation with the adviser. Students may take all of their course work in mental retardation and related courses or may take 15 to 18 hours in mental retardation and six (6) to nine (9) hours in a minor area of interest.

Master of Science: Teaching the Mentally Retarded
The Master of Science degree with a major in teaching the mentally retarded provides the opportunity for a person who wishes to expand his or her competency to teach students with mental disabilities. A degree candidate will sit for a comprehensive examination after completing courses. Electives will not be included in the comprehensive examination. A minimum of 36 semester hours must be completed for the degree. At least 18 of the 36 must be in 8-0 level courses.

   The courses listed below include those required for a Nebraska field endorsement to teach mildly/moderately handicapped (MMH) children and youth who are verified as learning disabled, mentally handicapped: mildly, behaviorally disordered, orthopedically impaired, or verified children and youth who are placed in multicategorical programs as described in Rule 24, Nebraska State Department of Education. One of three endorsement grade levels, K-9, 7-12, or K-12, will be chosen and indicated in student teaching assignments.

   A Master of Science degree with a major in teaching the mentally retarded may be sought by a person who already holds a field endorsement to teach mildly/moderately handicapped children and youth. A degree plan will be tailored to fit that person's professional needs. Courses will include graduate requirements and a specialized sequence from those offered in special education or communication disorders. Language delay, intra-individual academic differences, or social skill development of children with mental disabilities are examples of appropriate themes for specialized areas of study. A thesis may be written within this option. A person choosing to write a thesis will not sit for a comprehensive examination. Comprehensive questions will be included in the oral defense of the thesis.

   The Master of Science degree with a major in teaching the mentally retarded involves these requirements.

1. Admission to the University of Nebraska at Omaha Graduate College.

2. Bachelor's degree with a valid teaching certificate or completion of the necessary deficiencies to hold certification.

3. Required courses:
   TED 8010 Introduction to Research .................. 3
   SPED 8030 Special Education Alternatives .......... 3
   SPED 8800 Mental Retardation ........................ 3
   SPED 8820 Educational Strategies for Emotionally Disturbed Children and Youth .................... 3
   SPED 8400 Learning Disabilities ........................ 3
   SPED 8646 Methods and Materials in Special Education ......................................................... 3
   SPED 8716 Interaction Between Professionals and Parents of the Handicapped ............................ 3
   SPED 8816 Classroom Techniques for Behavior Control ................................................................. 3
   SPED 8720 Basic Student Teaching in Special Education (for the level, K-9 or 7-12, desired) ............ 3
   SPED 8730 Advanced Student Teaching in Special Education (for K-12 MMH Field Endorsement) .......... 3
   SPED 8910 Assessment of Learning Deficits ........ 3
   SPED 8808 Emotional Development of Children and Youth (for K-9 MMH) .................................... 3
   or SPED 8656 Career Development (for 7-12 MMH) ................................................................. 3
   (Both SPED 8808 and 8656 are required for K-12)

4. Choose one elective:
   SPED 8236 Language Development and Disorders for Teachers ...................................................... 3
   SPED 8960 Advanced Diagnosis of Learning Deficits ................................................................. 3

Other courses may be selected.

*Student Teaching Notes: To meet K-12 certification, students must have a student teaching experience at both the elementary and secondary level. At least one of these experiences must be all day, all semester. Students seeking this certification should consult with their advisor.
Master of Science: Teaching the Emotionally Disturbed

Students completing the Master of Science degree with a major in teaching the emotionally disturbed will be prepared to design, implement and evaluate educational programs for children and youth who have been identified as behaviorally disordered or emotionally disturbed and to consult with the teachers of such children and youth. Students completing this program will meet the State of Nebraska certification requirements for behaviorally disordered, and upon completion of the program and two years of successful teaching, will be recommended for endorsement to teach preschool through high school levels. Thirty-six hours must be completed for the Master of Science degree in Teaching the Emotionally Disturbed. A written comprehensive examination is not required of students choosing the thesis option. Thesis option students will be required to answer questions about coursework completed in the Master's program during their thesis defense.

The Master of Science degree with a major in teaching the emotionally disturbed involves these requirements:

1. Admission to the University of Nebraska Graduate College.
2. Bachelor's degree with teaching certificate in one or more teaching areas or completion of the necessary deficiencies to hold certification.
3. Have completed courses in learning theory (3 hours), curriculum development (3 hours), Psychology of the Exceptional Child (3 hours) and student teaching (3 hours).
4. Required Courses:
   - TED 8010 Introduction to Research ................. 3
   - SPED 8236 Language Development and Disorders for Teachers .................... 3
   - SPED 8656 Career Development for the Handicapped ........................... 3
   - SPED 8716 Interactions Between Professionals and Parents of the Handicapped .......... 3
   - SPED 8806 Emotional Development of Children and Youth ......................... 3
   - SPED 8816 Classroom Techniques for Behavior Control ................................ 3
   - SPED 8820 Behavioral Disorders ...................................................... 3
   - SPED 8830 Practicum in Teaching the Emotionally Disturbed ........................ 3
   - SPED 8840 Advanced Practicum in Teaching the Emotionally Disturbed .............. 3
   - SPED 8850 Methods and Materials for Behavior Disorders ......................... 3
   - SPED 8400 Learning Disabilities ...................................................... 3
   - SPED 8910 Theory of Assessment and Diagnosis of Learning Deficits ............. 3
   - Elective ......................................................................................... 3

Available:
- SPED 8990 Thesis (thesis option only) ..................... 6

Master of Science: Resource Teaching and Learning Disabilities

Resource Teaching and Learning Disabilities is a specialized training program designed to prepare the graduate student to identify, diagnostically analyze and teach children who have specific learning deficits within a cross-categorical resource classroom setting. The student should enter the program with a background in learning theory, child growth and development, curriculum development, and methods and techniques of teaching. Upon successful completion of the program and two years of successful teaching experience, students will be recommended for the Resource Teaching and Learning Disabilities endorsement in grades preschool through high school offered by the State of Nebraska. The student in the non-thesis option will sit for comprehensive examinations after completing 28 hours of coursework, excluding selected elective coursework, advanced student teaching and the school practicum. A written comprehensive examination is not required of students choosing the thesis option. Thesis option students will be required to answer questions about coursework completed in the Master's program during their thesis defense.

Thirty-seven hours must be completed for the Master of Science degree. Students electing a resource teaching and learning disabilities thesis option will complete a 40-hour program by taking SPED 8990 Thesis for six (6) credits rather than equivalent electives.

The Master of Science degree with a major in resource teaching and learning disabilities involves these requirements:

1. Admission to the University of Nebraska Graduate College.
2. Bachelor's degree with a valid teaching certificate from a state education agency or completion of the deficiencies necessary to meet certification.
3. Meet with the adviser for an interview before the first semester of enrollment.
4. Show evidence of successful completion of courses which are related to child development (3 hours), learning theory (3 hours), curriculum development (3 hours), student methods courses (3 hours) and student teaching (3 hours) or equivalent.
5. Maintain at least a "B" in each course of the first 12 hours of course work.

6. Required Courses:
   - TED 8010 Introduction to Research ......................... 3
   - SPED 8030 Special Education Alternatives .................... 3
   - SPED 8656 Career Development for the Handicapped ............. 3
   - SPED 8806 Emotional Development of Children and Youth ......................... 3
   - SPED 8816 Classroom Techniques for Behavior Control ................. 3
   - SPED 8400 Learning Disabilities ................................. 3
SPECIAL ED AND COMMUNICATION DISORDERS

SPED 8730 Advanced Student Teaching (Preschool-12) ............................................. 3
SPED 8910 Theory of Assessment and Diagnosis of Learning Deficits ......................... 3
SPED 8930 School Practicum in Resource Teaching/Learning Disabilities ..................... 3
SPED 8960 Advanced Diagnosis of Learning Deficits (Prerequisite SPED 8910) ............. 4
SPED 8970 Clinical Teaching in Learning Disabilities .............................................. 3
SPED 8990 Thesis (thesis option only)* ....................................................................... 6

Course Descriptions

4010/8016 Child Abuse/Neglect: What You Can Do (3) This course has been developed in conjunction with the Professional Interventions Committee of the Child Abuse Council of Omaha. It is aimed at providing professionals in the greater Omaha area with skills necessary to recognize children who are abused and/or neglected as well as acquaint them with the wide array of services available to the abused/neglected child and the family.

4020/8026 Using Microcomputer Software in Special Education (3) This course is intended for educators working with special education students. Students will learn about and how to use software to assist them in providing services to special education students. They will be taught to evaluate software in the area of special education and will participate in evaluating software that they should be using. Students will learn about software that will assist them in assessment and remediation including information on report writing, prescription and record keeping.

4030/8036 Use of Paraprofessionals in Special Education (3) This course is designed to familiarize students and professionals with the use of paraprofessionals in Special Education. Topics of concern will include local, state and national guidelines; legal issues; supportive data; and effective implementation strategies. Prereq: None.

4040/8046 Workshop in Special Education or Speech Pathology (1-6) The purpose of this course is to provide workshops or special seminars in the area of special education or speech pathology. Prereq: Determined by instructor.

4100/8106 Psychology of Exceptional Children (3) A study of exceptional children and adolescents with sensory or motor impairments, intellectual retardation or learning disabilities, talented or gifted abilities, language or speech disorders, emotional or behavioral maladjustments, social or cultural differences or major specific learning disabilities. (Same as PSYC 4590/5596)

4110/8116 Assessment and Curriculum in Cognitive Development for the Severely/Profoundly Handicapped (3) This course will involve a cooperative arrangement with the Special Education curriculum and students designed to prepare the student to be able to assess cognitive development in the severely handicapped student, and apply that information to the development of individual educational plans for severely handicapped students. The course will include weekly presentations and practicum. Prereq: For 8116, permission of Instructor. For 4110, junior in special education, PSYC 1010 or PSYC 3510, CORE 2100, 2500, 2500 or equivalents, and permission of instructor.

4220/8220 Teaching Speech to Hearing-Impaired Students (2) An investigation of the nature and structure of language, acquisition of language and childhood disorders. The course is designed for undergraduate/graduate students who are teachers or are preparing to be regular and/or special education teachers. Prereq: None.

4330/8334 Aural Rehabilitation (3) This course examines the research and technical methods in auditory training and their application to the hearing-impaired child. Practice with and evaluation of popular tests and methods are experienced in a practicum setting. Types of aids and FM systems and techniques of troubleshooting these units are also presented. Prereq: SPED 8596 and BSN.

4370/8376 Basic Audiology (3) Study of the pathologies of the auditory system and assessment of auditory disorders. Emphasis will be on various practical aspects of audiology for the communication disorders specialist. Competency will be acquired in performance of basic hearing testing. Prereq: For 4370, SPED 8910 and 8390.

4380/8386 Speech Science I: Speech Mechanisms (3) This course is an introduction to speech and hearing science and will present anatomy and physiology of the human communicative process. The mechanisms of respiration, phonation and speech articulation will be explored from the biological standpoint. The course is designed primarily for students in speech pathology, education of the hearing impaired, special education and those teachers who work with the communication handicapped in education or rehabilitation settings. Prereq: For 4390, junior and 2.5 GPA.

4390/8396 Hearing Science (3) This course is designed for graduate students in speech pathology and audiology and for graduate students in education of the deaf. The purpose of the course is to introduce basic concepts important for understanding the process of human audition. The course will include basic terminology, anatomy and physiology of the hearing mechanism, acoustics and physics of sound, the processes of human hearing, elements of basic hearing measurement, psychophysics. Prereq: For 8396, Graduate major in Deaf Education. Not available to Speech Pathology majors as a graduate course.

4410/8416 Communication Disorders with Organic Etiologies (3) This is a graduate-level course in applied basic science and clinical methods related to several of the most common communication disorders associated with organic etiologies. It is designed as an elective course in the masters degree programs in speech pathology and for post-masters education for practicing speech clinicians desiring a graduate-level overview of these topics. Prereq: Undergraduate degree in speech pathology or permission of instructor.

4420/8426 Language Development in Children (3) This course is designed to familiarize the student with normal aspects of language development in children, including inter and intrapersonal forces in language, major subsystems of language and non-verbal and pragmatic aspects of language development. Prereq: None.

4440/8446 Rhythm/Symbolization (3) Study of etiology and descriptive classifications of rhythm and language symbolization disorders; assessment procedures; with special emphasis on rehabilitation procedures and methods associated with stuttering, cluttering, organic dysprosody and aphasia. Prereq: For 4440, 2.5 GPA.

4450/8456 Speech Science II: Experimental and Applied Phonetics (3) Analysis of phonetics and phonetic elements in major American English dialects; practice in transcription of standard and defective speech, use of the sound spectrograph, spirometer and other equipment. Prereq: For 4450, junior, 2.5 GPA. (Fall, Summer)

4500/8506 Disorders of Communication in Older Adults (3) This course is designed to familiarize the student with the identification and symptomology, basic assessment and intervention strategies associated with disorders of communication affecting older adults and geriatric patients. It is beneficial to students majoring in gerontology or speech pathology as an elective course or as a professional enrichment course for persons working in these or related fields. Students are assigned contacts with and written reports of contacts with an older adult who manifests a disorder of communication. Prereq: GER 5000, 2.5 GPA or permission of Instructor. (Same as GER 4500)

4640/8646 Methods and Materials in Special Education (3) Individualized instruction and selection of appropriate methods and materials to meet educational programming needs for the mildly/moderately handicapped. Prereq: For 4640, junior, 2.5 GPA, SPED 8030. For 8646, graduate.

4650/8656 Career Development for the Handicapped (3) Curriculum oriented for teachers and related professionals to work with the career development of handicapped individuals. Includes information for elementary through adulthood with emphasis on intermediate and junior high school levels. Prereq: None.

4660/8666 Developing Vocational Training Programs for the Severely Handicapped (3) Directed toward teachers of secondary, post-secondary and adult handicapped persons to utilize vocational evaluation information, to develop training programs for severely handicapped youth and adults, and to compare various curriculum models for serving seriously handicapped youth and adults. Prereq: None.
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4710/8716 Interactions Between Professionals and Parents of the Handicapped (3) This course includes interviews of parents of handicapped children, identifying both family and professional concerns, and a student project in one of four areas: (1) challenges of parenting the handicapped; (2) strategies for involving parents in planning, implementing and evaluating handicapped child education plans; (3) curriculum modification for family use; and (4) professional dealings with families of the handicapped. Undergraduate students will work with a family as the family goes through the process of obtaining appropriate services for their handicapped child. Prereq: For 4710, SPED 3010, 3020, 4750/8756

4750/8756 Childhood Language Disorders (3) This course is designed to cover the various problems involved in language acquisition among exceptional children; and the various methodological techniques of teaching language to exceptional children. Prereq: SPED 4420 and 2.5 GPA, 4600/8686 Emotional Development of Children and Youth (3) The study of psychological, biological and environmental factors that affect social and emotional development of children and adolescents. Emphasis is placed on causative emotional handicaps, symptoms and subsequent implications for design of the learning environment. Prereq: For 4800, SPED 3010 and 3016 (Same as Curriculum and Instruction)

4810/8816 Classroom Techniques for Behavior Control (3) This course will introduce the student to a variety of techniques for managing behavior in the classroom. Three major areas will be presented and specific techniques within each will be practiced both in class and in the student's own teaching situation. Application of instructional strategies and techniques will be accomplished in class. The course is intended for graduate students who are currently enrolled in student teaching and for graduate students who are currently teaching in elementary, secondary or special education programs. Prereq: For 4810, junior and senior teaching. For 8816, graduate.

8000 Special Projects (1-5) Seminars, workshops or independent studies on special topics.

8200 Special Education Alternatives (3) This course meets the requirements of Nebraska Statute 79-1247.16 (LB 392). The provision of unique educational or alternative responses to students with extraordinary educational needs is considered in both regular education and less restrictive educational environments. Definition, identification, diagnosis, referral and planning for exceptional learners will be applied to techniques of classroom management, adaptations and referral processes. Prereq: Graduate.

8310 Communication Disorders for Classroom Teachers (3) This is a service course for the classroom teacher. It provides the following: identification of the child with a hearing impairment, referral within and outside the school setting, legal considerations, utilizing the speech-language specialist as a resource, management techniques for teachers, and teachers' roles on Student Assistance Teams (SAT) or Multidisciplinary Teams (MDT), and similar topics. Prereq: Graduate.

8330 Research Projects (1-3) Individual or group study and analysis of specific problems.

8340 Diagnostic and Remedial Instruction in Reading (3) A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediation of reading disabilities. Prereq: SPED 9110 or 9120.

8410 Measurement and Evaluation of Reading (3) A clinician-oriented course for advanced graduate reading students which will provide them with supervision and training in handling referrals, diagnosing specific reading problems, writing professional-level case reports and general practices that are necessary for running an effective diagnostic reading clinic. Prereq: TESD 9110, 9120

8510 Clinical Practice in Reading (3) A laboratory-oriented course for advanced students in reading which will provide them with practicum training in the use of proper remedial reading techniques so they might qualify as reading specialists. Prereq: Permission and SPED 8410.

8820 Research in Hearing Impairment (3) This course will provide a comprehensive review of current research in the field of hearing impairment. Research in psycho-socio-emotional factors, communication development, educational issues, and related areas (speech, hearing, aural rehabilitation) will be covered. In addition, the course will emphasize the use of ethnography (including the collection and analysis of videotaped data) in research with the hearing impaired. Prereq: Graduate, permission of instructor.

8240 Advanced Studies in Communication and Language (3) This course will provide an in-depth study of the development and use of symbol systems as means of communication. The course will focus on the development and use of communication in various language and learning situations. In addition to formal and informal means of assessment, along with adaptations of curriculum and instructional strategies, will be covered. Alternative and augmentative systems of communication will be examined. Prereq: Graduate, permission of instructor.

8280 Sociological Impact of Deafness (3) The course deals with the sociological impacts of hearing impairment as they relate to individuals' participation in society. Four major aspects of social participation will be examined: family relationships, educational environments, personal-social characteristics and vocational opportunities/implications. Prereq: None.

8290 Learning and Literacy in the Hearing Impaired (3) This course will examine current research in the development of reading-writing in normal hearing and hearing-impaired children. Practical application of research information to classroom instruction will be stressed. Participation in ongoing, classroom-based "writing and reading workshops" will be part of the course.

8340 Seminar in Pediatric Audiology (3) The course is designed for graduate majors in the speech pathology, audiology and education of the hearing impaired. It has a seminar format with several guest lecturers. Topics to be covered include: behavioral audiometry, immobilization tests, speech-perception tests, electrocochleographic tests, amplification problems, habilitation of the hearing impaired, hearing and immitance screening and techniques for evaluating the difficult-to-test. Prereq: SPED 8480 or permission.

8350 Curriculum Development and Adaptation for the Hearing Impaired (3) This course examines principles of curriculum design and development as they apply to hearing-impaired students. Curriculum needs unique to residential schools, public school programs (contained classroom, resource room, itinerant services) and early intervention programmes will be emphasized. Sources of special instructional materials, including computer software, and techniques for designing and/or adapting instructional materials for use with hearing-impaired students will be examined. Prereq: Graduate.

8400 Learning Disabilities (9) Study of specific learning disabilities among children; review of problems of terminology, criteria and definition; causal factors of learning disabilities; evaluative techniques for identification of the problem; therapy techniques for habilitation or rehabilitation of children with specific learning disabilities.

8420 Advanced Studies in the Disorders of Voice (3) Types and causes of voice disorders; rationale for case selection; clinical analysis; special emphasis on rehabilitation procedures associated with individual involvements; practicum. (Fall)

8430 Advanced Studies in the Disorders of Rhythm and Rhythm (3) Types and causes of rhythm and rhythm pattern disorders; rationale for case selection; survey of stuttering theories and therapies; special emphasis on rehabilitation procedures associated with individual involvements; practicum. (Spring)

8440 Advanced Studies in the Disorders of Aphasia and Related Problems (3) 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. (Spring)

8450 Current Practice in Speech Pathology (3) This course provides for current research in speech therapy programming utilizing behavior modification techniques based on Skinnerian-behaviorist principles. It includes a review of current literature and emphasizes operant antitypical and language remedial procedures. Prereq: SPED 8506. (Summer)

8460 Diagnostic Methods in Communication Disorders (3) 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. Prereq: Graduate and six hours of speech pathology. (Fall)

8470 Speech Science II: Neurophysiology of Speech and Language (3) Introduction to human neuroanatomy and neurophysiology. Emphasis is placed on gaining familiarity with the brain mechanisms and sensory and motor functions which underlie human communication and its disorders; individual projects. (Fall, Summer)

8480 Advanced Audiology (3) This course is intended for graduate students majoring in speech pathology. It is designed to present information pertinent to clinical certification of the speech pathologist. Course content includes specialized techniques applicable to the assessment and diagnosis of auditory dysfunction. Application of basic hearing techniques combined with special tests for assessment of site of lesion will be stressed. The use of case histories, strobotachy considerations, identification audiometry and equipment maintenance will be considered. Prereq: SPED 4290.

8500 Basic Clinical Practicum in Speech Pathology (3) This course follows the course 4510 which is the student's first experience in clinical practice. It is designed to graduate students who need more than one semester of closely supervised practicum an opportunity to get this experience before being placed in a setting away from the university. Prereq: Permission and SPED 4510 or equivalent.
8510 Advanced Clinical Practicum in Communication Disorders (Schools) (3) This course provides the student with an "externship" experience for all students seeking clinical experience in a school setting with a cooperating clinician serving children in a typical school program. A minimum of 130 clock hours of work is required for credit. Prereq: SPED 4510 and graduate.

8520 Advanced Clinical Practicum in Communication Disorders (Hospitals and Rehabilitation Centers) (3) The second semester of advanced clinical practicum. The student is placed in an "externship" setting with a cooperating clinician working in a hospital, rehabilitation center or a unique school program serving a special population of children. A minimum of 130 clock hours of work is required for credit. Prereq: SPED 8510.

8530 Seminar in Speech Pathology (3) Students selects and investigates three different areas of current concern in speech pathology: initial survey, annotated bibliography, presentation of observation and conclusions, seminar discussion of findings. Instructor will base his lectures on topics chosen by students for study; clinical demonstrations of selected voice, speech and language problems. Prereq: Eighteen hours of graduate speech pathology. (Spring, Summer)

8540 Cleft Palate (3) This course in speech pathology is designed for graduate students and public speech clinicians. This course is designed to expose students to the problems of communication by which the child with a cleft of the palate is confronted. Developing competencies for remediation procedures and methods will be the primary aim of the course. (Spring)

8550 Alaryngeal Speech Rehabilitation (2) Problems of voice and speech rehabilitation for the individual without a functional larynx and communicative problems will be discussed as well as clinical procedures for esophageal, pharyngeal and buccal speech; implications for use of artificial larynx; current research pertinent to this area. Prereq: Graduate and six hours speech pathology courses including voice problems. (Fall)

8560 Speech Problems of Children with Severe Learning Disabilities (3) Identification of types of cerebral palsy by location of lesion, motor symptomatology, and additional handicaps; the role of the speech clinician on the team; types of speech therapy, with special emphasis on the Bobath approach; current research and controversial issues will be discussed. Prereq: SPED 8479. (Spring)

8600 Mental Retardation (3) This course is to provide an overview of mental retardation using a perspective that includes historical, sociological, anthropological, philosophical, psychological and educational elements. The thrust will be to show how mental retardation fits into the culture at large. An attempt is made to show the holistic integration of retardation in the culture of the United States. (Fall)

8610 Teaching Severely/Profoundly Handicapped (6) This course workshop is intended for special educators and educational/medical support personnel (e.g., OT, Speech Path) working with students with severe, profound or multiple handicaps in school settings. This course is designed to familiarize students with concepts, terminology, professional issues, resources and teaching strategies as a basis for professional communication and educational programming for this handicapped population. Emphasis will be placed on problem-solving in the areas of motor, cognitive and communication development for development ages birth to five years. Prereq: SPED 4600/6600.

8630 Curriculum Planning for the Disabled (3) This is a modular competency-based course where students study the terminology of curriculum, its goals and aims, objectives and taxonomies, curricular development, units and lesson plans, task analysis assessment and evaluation, and programming. Projects, small-group discussion and a final test make up the evaluation techniques used in this class.

8640 Methods of Assessment for the Severely/Profoundly Handicapped (5) This course will involve a combination of lectures, demonstrations and practicum experiences designed to prepare the student to be able to concisely present assessment principles into written behavioral objectives and written task analysis. Demonstration of competency in course objectives will be evidenced by collecting, measuring and graphing data on the written objectives and tasks. Prereq: SPED 8600, 9000 or permission of instructor.

8660 Sensory Disabilities and Physical Handling in the Multiply Handicapped Child (3) This course will include overviews of typical sensory development and physical handling, including the discussion and illustration of educational implications of sensory disabilities and motor problems in the child with multiple handicaps. Application of principles to educational intervention will be stressed. Prereq: SPED 8600 or equivalent or permission of instructor.

8700 Seminar in Special Education (3) Graduate course for professional workers who provide services for exceptional persons. Each seminar will be conducted around a theme concerned with current professional practice. Participants will each prepare a project which includes practical research, a written paper and presentation to the class. Lecture by the instructor and guests will be related to the seminar theme. Prereq: Graduate in a field of social science.
TEACHER EDUCATION

PROFESSORS:

ASSOCIATE PROFESSORS:
Bressler, P. Kolasa, Langan, Mortenson, Parnell, Van Every

ASSISTANT PROFESSORS:
Danielson, N. Grandgenett, Lloyd, K. Smith, Tixier Vigil

The Department of Teacher Education offers graduate degrees in Elementary Education, Reading, Secondary Education and Urban Education. In addition, graduate concentrations are available leading to certification or endorsement in Educational Media, Gifted Education, Vocational Education and Special Vocational Needs.

The department does not offer a Minor in TED or in any of the majors within the department.

Admission Requirements
The requirements for unconditional admission into a graduate degree program are as follows:

1. A valid teaching certificate, except for Urban Education
2. An undergraduate major GPA of 3.0 or above
3. Completion of undergraduate deficiencies
4. An acceptable score on one of the following (must be completed before a second enrollment in classes):
   a. Graduate Record Examination - minimum score of 840 on the Verbal and Quantitative sections
   b. Graduate Record Examination - minimum score of 1260 on the Verbal, Quantitative and Advanced Test in Education
   c. Miller Analogies Test - minimum raw score of 35

Comprehensive Examination
Students who seek the Master of Science degree must take a written Comprehensive Examination. This examination is taken at or near the completion of all course work required in the approved Plan of Study.

Non-Degree-Seeking Students
Students who are not planning to pursue a program leading to a Master's degree are allowed to take courses for which they meet the prerequisites. Their graduate adviser will confer with them in planning for such courses. Students not pursuing a graduate degree will be admitted as unclassified graduate students. Normally, no more than six hours taken as an unclassified student may be transferred into a graduate degree program.

Elementary Education
Master of Arts
The Master of Arts degree in Elementary Education requires 30 hours of course work. This program allows for individualization and provides an opportunity for in-depth scholarly study in an area of interest. A Master's thesis is required and is included within the 30 hours. Programs for the Master of Arts degree in Elementary Education will be determined in consultation with the major adviser.

Master of Science
Degree Program
1. Required Courses.................................. 12 hours
   TED 8010 Introduction to Research
   or
   TED 8130 Field Research Techniques in Urban Education
   TED 8020 History and Philosophy of Education
   TED 8060 Current Issues and Trends in Education
   TED 8430 School Curriculum Planning

2. Related Courses..................................... 6 hours
   EDAD 8460 Administration and Supervision in Elementary Schools
   COUN 8016/SPED 8016 Child Abuse/Neglect: What You Can Do
   PSYCH 8510 Advanced Educational Psychology
   TED 8010 Introduction to Research
   TED 8130 Field Research Techniques in Urban Education
   TED 8210 Human Relations for Bias Free Education
   TED 8450 Seminar in Global Education
   TED 8540 Using Computers in the Educational Process
   TED 8900 Introduction to the Education of the Gifted
   TED 8940 Individual Factors/Styles that Affect Teaching
   TED 9100 Principles and Practices in Elementary Reading

Any Early Childhood course

3. Area of Concentration................................ 12 hours
   Each student will include in his/her Plan of Study, an area of concentration in a special field which will provide depth in an area of his/her interest. All concentrations will be decided upon in conference with the student's departmental adviser. Possible choices include: Reading, Language Arts, Early Childhood Education, Gifted Education, Global Education, Improvement of Instruction, Learning Disabilities, Educational Administration, Educational Media, or an academic concentration, e.g., history, English, mathematics.

3. Electives............................................. 6 hours
   Total Hours Required (minimum).................. 36 hours

Reading
Master of Science
The Master of Science degree with a major in Reading provides an opportunity for graduate study in the field of reading education. Students may select either a non-thesis program of study (Option 1), or a thesis program of study (Option 2). Both options require students to successfully complete a minimum of 36 hours of graduate credit.
Students completing Option 1 will be eligible for K-12 endorsement in reading in Nebraska. Students completing Option 2 who wish to be eligible for a reading endorsement must include the course work required for endorsement in their program of study.

A program of study for both Option 1 and Option 2 must be approved by a major adviser.

**Option 1: M.S. Program without Thesis**

1. **Required Courses** ............................................ 27-30 hours
   - TED 8010 Introduction to Research
   - TED 9100 Theories and Processes in Reading
   - TED 9110 Principles and Practices in Elementary Reading
   - TED 9120 Teaching Reading in the Secondary School
   - TED 9180 Seminar Research in Reading
   - TED 8470 Language Arts in the Elementary School
   - TED 8650 Literature for Children and Youth
   - TED 8666 Literature for the Adolescent
   (This course requirement will be waived if taken at the undergraduate level; another course must be substituted in its place).
   - SPED 8140 Measurement and Evaluation of Reading
   - SPED 8150 Clinical Practice in Reading

2. **Related Courses** ........................................... 6-9 hours
   (To be determined in consultation with adviser)

   **TOTAL HOURS REQUIRED** ....................... 36 hours

**Option 2: M.S. Program with Thesis**

1. **Required Courses** ............................................ 9 hours
   - TED 8010 Introduction to Research
   - TED 9100 Theories and Processes in Reading
   - TED 9180 Seminar in Research in Reading

2. TED 8990 Thesis ............................................ 6 hours

3. **Related courses** ........................................... 21 hours
   (To be determined in consultation with adviser)

   **TOTAL HOURS REQUIRED** ....................... 36 hours

The thesis is completed under the direction of a major adviser and supervisory committee as outlined in this catalog. The comprehensive exam will occur during the thesis defense, and will consist of questions and answers reflecting course work.

Students wishing to qualify for K-12 endorsement in reading in Nebraska must also complete TED 9110, TED 9120, SPED 8140, and SPED 8150. These may be used as electives.

**Secondary Education**

Secondary Education students may earn the Master of Arts degree or the Master of Science degree. Professional certification and/or additional endorsements may be earned as a part of both degree programs by developing an appropriate plan of study in consultation with an adviser.

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**Master of Arts**

1. **Required Courses** ............................................ 15 hours
   - TED 8010 Introduction to Research
   - TED 8030 Seminar: Education-Secondary
   - TED 8330 Analysis of Teacher Behavior
   - TED 8410 Improvement of Instruction
   - TED 8430 School Curriculum Planning

2. TED 8990 Thesis ............................................ 6 hours

3. **Related Professional/Academic Courses** .............. 9 hours

**Master of Science**

1. **Required Courses** ............................................ 15 hours
   - TED 8010 Introduction to Research
   - TED 8030 Seminar: Education-Secondary
   - TED 8330 Analysis of Teacher Behavior
   - TED 8410 Improvement of Instruction
   - TED 8430 School Curriculum Planning

2. **Related Teacher Education Courses** .............. 6 hours

3. **Related Professional/Academic Courses** .............. 15 hours

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**Urban Education**

**Master of Science**

The Master of Science program in Urban Education is designed for graduate students who are interested in exploring the contemporary issues confronting urban educational institutions. The range and depth of the inter-disciplinary course offerings in this program provide varied, challenging and relevant experiences for both classroom teachers and community workers in allied professional fields. Students in this 36-hour program will increase their competence and expertise in functioning not only in the educational setting of the urban classroom, but also within the wider community milieu.

It is expected that students will be able to critically analyze the logic and structure of the educational institution, and interrelationship of education and other primary socializing agencies.

Many of the courses offered in the program are designed specifically to facilitate an analysis of the ethnic, racial, and social characteristics of the contemporary urban scene.

It also is expected that students will develop an awareness of and the ability to handle the learning problems of urban youth. The program emphasizes a cultural awareness and appreciation of the varied lifestyles within the urban setting, and specific skills to function effectively as an educator. In addition, attention will be focused on a critique of existing programs and the development of new strategies for change and the improvement of education.

1. **Required Courses** ............................................ 18 hours
   - TED 8010 Introduction to Research
   - TED 8020 History and Philosophy of Education
   - TED 8030 Seminar: Education-Urban
   - TED 8160 Education and Society
   - TED 8170 Alternative Strategies for Education
   - TED 8180 The Urban School
2. Select from any of the following............................ 6 hours
TED 8086 Mental Health for Teachers
TED 8226 Growth and Learning Problems of the Disadvantaged
TED 8130 Field Research Techniques in Urban Education
TED 8150 Comparative Education
TED 8190 Conflict and Controversy in Urban Education
TED 8200 Anthropology and Urban Education

3. Electives (to be determined by the student and the adviser) ....................... 12 hours

Course Descriptions
4710/8716 Reference and Bibliography (3) This course will examine the reference function of libraries. It is designed to acquaint students with the basic tools of reference work and with the techniques of assisting library users in their pursuit of information. Prereq: Admission to Graduate College.
4720/8726 Advanced Reference and Subject Bibliography (3) This course will provide an introduction to computer-assisted reference work; combine evaluation of reference sources and services with various reference philosophies; identify and discuss reference materials in the sciences, humanities and social sciences; and describe the process and flow of information through an information retrieval system. Prereq: Admission to Graduate College and TED 8710.
4740/8746 Cataloging and Classification I (3) An introduction to the basic cataloging procedures prescribed by the American Library Association and the Library of Congress. The course also involves working with the Dewey Decimal Classification System, Sears List of Subject Headings and MARC formats used by OCLC. Prereq: Admission to the Graduate College.
4750/8756 Cataloging and Classification II (3) The course is designed to develop new cataloging skills including: non-print materials; analytical cataloging; serial cataloging; and work with Library of Congress and MARC formats used on the OCLC system. Prereq: Graduate and TED 8746.
4760/8766 Selection and Evaluation of Educational Media (3) This course is designed for persons interested in gaining information about learning resources for preschool through adolescent students particularly in a school environment. Prereq: Graduate.
4770/8776 Production and Utilization of Educational Media (3) The purpose of this course is to introduce students to educational technology through a study of the history and theory of the field. It is intended to provide students with a background in the characteristics, selection, evaluation, production and utilization of educational media. Prereq: Admission to Graduate College.
4780/8786 Instructional Television Program Planning and Production (3) Students will be introduced to the role of television as applied to instruction. Production training and practices, TV lessons and series planning, and viewing and evaluation of lessons will be included in addition to production of a major project of practical significance and application. Prereq: Graduate.
4790/8796 Photography as an Instructional Medium (3) Various photographic techniques will be studied to enhance the visual literacy skills of the students through the sorting and organization of visual representations into patterns and relationships of non-verbal expressions. This course is designed for media specialists and elementary and secondary teachers interested in utilizing photography as an instructional medium. Prereq: LS 8700/8706.
4800/8806 Administration of the Instructional Materials Center (3) A course designed for students who wish to prepare themselves for the supervision of an educational media program within an elementary and/or secondary school.
4810/8816 Principles and Philosophy of Vocational Education (3) A study of the basic philosophy underlying vocational education and the principles and practices in the various fields. (Fall, Summer)
4850/8856 Coordination Techniques in Vocational Education (3) Reviews responsibilities and techniques of coordination for the vocational teacher-coordinator and or vocational coordinator, with special emphasis upon local administration of the part-time cooperative program and analysis of the laws and regulations governing this program. (Spring, Summer)
6900 Special Studies (1-3) A series of intensive courses especially for teachers in service scheduled as regular seminars or workshops, according to purpose. Prereq: Graduate and permission of department.
8010 Introduction to Research (3) To acquaint the beginning graduate student with the nature and significance of research to enable the student to read, evaluate and apply research results and techniques; to give some understanding of the meaning and spirit of research; to give some experience in studying and preparing research reports.
8020 History and Philosophy of Education (3) This course is designed to provide a critical perspective, both historical and philosophical, for understanding education in the United States. The course examines critically the evolution of educational thought and practice from the Colonial era to the present U.S.
8030 Seminar in Education - Special Topics (3) The course provides an in-depth study of selected educational problems and ideas. When scheduled, the specific focus of the course may be limited to elementary education, secondary education, urban education or other appropriate educational areas. Prereq: Graduate.
8040 Seminar in Supervision of Student Teachers (3) The seminar is designed for experienced teachers who are or may be serving as cooperating teachers, and who desire to study the aims, procedures, objectives, trends and development of student teaching.
8050 New Ways of Knowing and Education (3) This course will cover a variety of teaching/learning strategies that have emerged in the professional literature from various parts of the world. The student will practice the skills as the thrust of the class is experiential rather than theoretical. The students are expected to “do” not just “know about” these approaches. Prereq: Graduate.

8060 Current Issues and Trends in Education (3) Designed as an advanced study for the purpose of exploring current issues and trends within the K-12 curriculum. Prereq: Graduate.

8090 Economics of Education (3) A study and examination of economic principles, teaching strategies and curriculum materials, and how they can be related to the teacher's classroom presentation. This course is designed to furnish the K-12 teacher with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles. Open to any graduate student with no previous college work in economics who is teaching K-12. Not open to majors in economics.

8100 Research Project (1-3) Individual or group study and analysis of specific problems in schools. Typical problems will be concerned with curriculum and instruction in areas which have a broad scope of application rather than a specific level. Prereq: Graduate and permission of department.

8110 Introduction to Multicultural Education (1) This course introduces the concept of multicultural education, including the development of an awareness of cultural and ethnic groups. Participants will develop a multicultural perspective on the process of education. Prereq: Graduate.

8130 Field Research Techniques in Urban Education (3) The basic purpose of this course is to give students an opportunity to design and conduct field research within the urban educational milieu. Anthropological field research and naturalistic studies will be given emphasis. Students will be assisted in developing a field research design and will learn to gather and collate data. The course will culminate in the completion of an urban educational field study. Prereq: Graduate, TED 8010, 8030 or permission of instructor.

8140 Urban Cultures and Teaching: The City as Teacher (3) The City as Teacher is a unique course designed specifically for educators in the Omaha metropolitan area. Teachers will be introduced to the Omaha metropolis as a microcosm of America. Utilizing urban systems theory in addition to numerous field trips they will have opportunities to explore the ethnic, cultural and religious institutions of the city and apply that knowledge by using a theoretical base. This field work will be followed by brainstorming sessions, skills seminars, guest speakers and idea exchanges that will be the basis for improved teaching strategies and the development of new multicultural units of study for the urban classroom. Prereq: Graduate.

8150 Comparative Education (3) An intensive study of the educational systems of selected nations found in Europe, Asia, Latin America, and Africa; particular emphasis is placed on a total study of the society selected and its resultant educational adaptation and future educational directions.

8160 Education, Schools, and Society (3) A study of the problems that modern society is confronted with and the role(s) that education has in helping society meet its challenges. Emphasis will be placed on the interface between the educational institution and the other major arenas forming the social fabric. Attention will be given to the mechanism of change.

8170 Alternative Strategies for Education (3) An intensive study of the impact of present school organization and practice on the student and current alternative proposals for educational innovation. A brief overview of both the historical development and theoretical assumptions underpinning the traditional school program will serve as a foundation from which to analyze and evaluate the merit and utility of contemporary strategies. Stress will be placed on the wide social implications of the models discussed.

8180 The Urban School (3) 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.

8190 Conflict and Controversy In Urban Education (3) A course designed for students who wish to keep abreast of contemporary issues which confront the educational institution and the teaching profession in an urban milieu. Topics are modified annually to reflect current educational issues.

8200 Anthropology and Urban Education (3) This course is designed to examine in which education, conceptualized as cultural transmission, contributes to and is influenced by continuities and changes in culture. An understanding and working knowledge of the culture concept is basic to the course. Interrelationships among ecological, social, and ideological forms in a subculture or society will be stressed. A limited anthropological field study is a requirement for this course. Prereq: TED 8010.

8210 Human Relations for Bias Free Education (3) This course is designed to develop practicing teachers' awareness of and skill in meeting students' needs in the areas of human understanding, acceptance, and value. Students will examine existing attitudes toward various minority groups such as racial, ethnic, age, sex, etc. School materials and attitudes will also be examined in determining the effect they have on students. Prereq: Admission to graduate college.

8230 Current Kindergarten Practices (3) An in-depth examination of kindergarten practices, with a focus on criteria, procedures, and pedagogy for the implementation of developmentally appropriate curricula for kindergarten children. Prereq: Admission to Graduate College.

8300 Effective Teaching Practices (3) This course will focus on specific characteristics and behaviors of effective teachers. Course content will be derived from research on teaching and learning. Students will develop an instructional paradigm that contains a research base and design. Prereq: Admission to Graduate College. Admission to a College of Education program or permission.

8330 Analysis of Teacher Behavior (3) Emphasis is placed upon current observational systems for analysis of teacher behavior in a classroom setting. Special topics include in-depth interaction analysis, micro-teaching, non-verbal behavior and simulation. Student proficiency in these observational systems using video-tape equipment is stressed.

8340 Methods and Techniques for Identification and Teaching Listening Skills in the Classroom (3) The identification of listening problems and analysis of teaching methodology for improving listening skills in today's classroom. Practical methods of teaching listening as applied to specific learning problems in the areas of educational and secondary education will be emphasized. A research paper presenting an in-depth analysis of deterrents to listening and suggestions for their solution will be completed by each participant. Prereq: Admission to Graduate College, College of Education and one year teaching experience; TED 8100.

8350 Models for Teaching (3) This course is designed to increase awareness and knowledge of teaching skills which can expand a teacher's repertoire. These additional skills and knowledge will allow a teacher to provide instruction in a broader range of student abilities. Prereq: None.

8355 Diagnostic and Corrective Instruction (3) This course involves the study of methods of diagnosing children's difficulties in the basic curriculum areas of the educational process in the elementary school and corrective techniques for overcoming such problems. The area of reading is included as it relates to other subject areas.

8370 Introduction to the Middle School (3) The course is intended for persons who have a need for acquiring knowledge and skills relevant to the operation of the Middle School, and who may ultimately need certification for professional assignments in the Middle School. Prereq: Admission to Graduate College.

8380 Introduction to Instructional Theory Into Practice (3) This course is designed for practicing teachers who are working to improve teaching skills in their classroom. This course will focus on utilizing the research and practices in the Madelyn Hunter teaching model. Prereq: Admission to Graduate College.

8390 Teaching at the Middle Level (3) This course will provide teachers with a guided experience in implementing middle level teaching techniques and strategies in their classrooms. Students will be exposed to a variety of teaching strategies that have been identified as appropriate for this level in the research literature on middle level education. Students will then choose a teaching strategy to implement and evaluate in a middle level classroom. Prereq: TED 8010, 8370, six hours of approved elective courses and permission of instructor.

8400 European Study Tour (3) The purpose of this course is to examine British education in detail and European education in general for informative and comparative analysis. Academic lectures, seminars and workshops will be presented in the following areas of education: early childhood, elementary, secondary, special, gifted and talented, administrative and health care. Participants will visit schools, workshops and seminars that are of special interest to them. Prereq: Admission to Graduate School and permission of instructor.

8410 Improvement of Instruction: Special Topics (3) This course provides an in-depth study of instructional theory, research and methodology designed to assist teachers in instructional improvement. When scheduled, the specific focus may be limited to selected subject areas. Prereq: Graduate.

8420 Trends and Teaching Strategies in Science Education (3) This course is designed for the graduate student whose study program emphasis is in the area of science education. Its focus will be K-12 and as such is aimed to serve graduate students in both elementary and secondary education departments. The course will be describe and analyze past and present trends in science education including curriculum teaching strategies, the laboratory and instructional materials, particular strategies that have merit and relevance concerning today's students and teachers will be treated in-depth.
8430 School Curriculum Planning (3) Designed to provide the student with understanding of the nature and trends in school curriculum development with the principles and practices utilized in curriculum planning. Strong emphasis is placed on curriculum construction.

8440 International Curriculum Practices (3) An analysis of curriculum practices and procedures that are currently utilized in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course activities will include correspondence with foreign students and educators as well as in-depth research on assigned areas. Prereq: Graduate.

8450 Seminar in Global Education (3) This course is designed to assist elementary and secondary teachers in understanding the nature and kinds of global education. Major emphasis will be placed on practical program implementation of global education concepts into the existing curriculum offerings. Prereq: Admission to Graduate School.

8460 Simulation/Gaming Laboratory for Teachers (3) This course is designed to familiarize teachers with simulation/games. It is designed to provide them with the ability to understand, use and create simulations/games for the classroom. Prereq: Graduate.

8470 Language Arts in the Elementary School (3) This course includes a study of language and its uses in the areas of speaking, reading, writing, and listening in the elementary school curriculum. The research in these areas is studied and application is made to classroom practices. Prereq: Graduate.

8480 Teaching Adults to Read: A Course in Literacy Training (3) This course is designed for elementary, secondary, ABE teachers and other individuals interested in working with adults illiterate populations. Major emphasis in this course will be understanding the adult learner, developing methodology and materials for teaching adults to read and identifying and developing appropriate test instruments. Prereq: TED 8010 and one course in reading at either the graduate or undergraduate level.

8500 Workshop: Newspaper in the Classroom (3) A course designed to assist teachers in planning to use the newspaper as an aid to classroom instruction. The course content includes the importance of the newspaper, methods for using the newspaper, activities suitable for classroom use and a study of available curricular materials.

8510 Aerodynamics in Elementary Education Workshop (3) The course will focus on aviation and space education and its impact on society. It will seek to communicate knowledge, impart skill and develop attitudes relative to the scientific, engineering and technical as well as the social, economic and political aspects of aviation and space flight efforts. It is designed primarily to serve the graduate student in the college of education; however, students with other professional goals will be considered. Its emphasis will be K-12 and as such is meant to serve both the present elementary and secondary education graduate students. Prereq: Graduate.

8520 Practicum in Library Media (3-5) This three to five credit hour supervised practicum is designed to give librarians and library media specialists an overview of the administrative and instructional aspects of a library/media center. Prereq: Minimum 18 hours of library media, Graduate and permission of departmental advisor.

8530 Automated Information Systems (3) To examine the historic, current and future trends of automated information systems; to ascertain the flow of information through a retrieval system; to introduce vocabulary, methodology, theory and techniques utilized in operating automated systems; criteria for evaluation and selection of automated retrieval systems and services. Prereq: Graduate.

8540 Using Microcomputers in the Educational Process (3) This course is designed to enable teachers, administrators and other school personnel to understand how microcomputers can be implemented to help educators orchestrate learning environments in K-12 schools. Students will be given hands-on experience with a broad range of instructional computing applications, including, but not necessarily limited to, productivity tools (such as word processors, data bases and spreadsheets), computer mediated telecommunications, LOGO programming, curriculum-infused software use and interactive multimedia.

8560 Developing Computer-Mediated Educational Environments (3) This course is designed for educators who wish to develop, implement and evaluate learner-based computer-mediated instructional environments. Course enrollees will learn to use HyperCard or a procedurally-based computer language such as LOGO to create, implement and evaluate non-linear, student-centered interactive hypermedia or LOGO microworlds, based upon their students' previously assessed learning needs, for which computer-mediated educational environments have been prescribed. Prereq: TED 8540 or equivalent or familiarity with the BASIC language.

8580 LOGO and the K-12 Curriculum (3) This course is intended as an introduction to the LOGO programming language and its applications to K-12 curricula. The history, philosophy and coding structures (in graphics, text and peripheral device contexts) of LOGO will be explored with particular emphasis placed upon infusing LOGO into many areas of elementary and secondary curricula. No previous programming experience is required. Prereq: Graduate.

8590 Using Microcomputer Productivity Tools in the K-12 Curriculum (3) This course introduces students to the implementation of microcomputer productivity tools — word processors, data base managers, spreadsheets, electronic mail and conferencing, desktop publishing and presentation tools, and graphics generators — to help the classroom teacher orchestrate the learning environment. Particular emphasis is placed upon developing instructional materials for use in K-12 curricula which employ these productivity tools to help students develop higher order thinking skills. Prereq: Graduate.

8600 Advanced Seminar in Educational Technology (3) This is a variable content course focusing on selected advanced topics in educational technology. Course topics will include such subjects as educational technology, robotics, distance education, and virtual realities. The course may be taken more than once for credit, provided that the topics differ, with a maximum of six credit hours. The course seeks to prepare graduate students for a leadership role in educational technology and the emerging curriculum of an information age society. The course also seeks to provide a deeper understanding of the role of the teacher as an orchestrator of the learning environment through the knowledgeable use of advanced educational technologies for instructional purposes. Prereq: Graduate, TED 8540 and one other course in educational technology.

8650 Literature for Children and Youth (3) The course is designed as a graduate-level course dealing with the utilization of literary materials for children from preschool through grade six reading level. It is to provide the student an opportunity to explore, evaluate and understand literature for children; to acquaint students with research in the field; and to provide an avenue for developing more meaningful and creative learning activities for children. Prereq: Graduate.

8820 Introduction to Vocational Needs Students (3) Designed for secondary education personnel who desire knowledge of the history and current status of Vocational Special Needs. Students will gain a better understanding of handicapped and disadvantaged students. Prereq: Admission to Graduate College.

8920 Program Evaluation & Occupations Readiness for the Special Needs Learner (3) The course involves the processes of diagnosing students' needs in vocational education, communicating occupational information, and assisting students in the preparation for job training by 1. Concurrent and 2. Job-related. This course is intended for teachers, counselors and support personnel. Prereq: TED 8820.

8930 Curriculum Construction for Adult and/or Special Needs Students (3) Designed for teachers, supervisors, coordinators and administrators who are working with adult learners and/or special needs learners. The course includes principles, needs, factors and trends that should be considered in developing curriculum to meet the needs of special populations. Prereq: TED 8820.

8940 Career Exploration & Occupational Readiness for the Special Needs Learner (3) The course involves the processes of diagnosing students' needs in occupational education, communicating occupational information, and assisting students in the preparation for job entry-level employment. This course is intended for teachers, counselors and support personnel. Prereq: TED 8820.

8950 Administration & Supervision of Adult/Vocational Education (3) Basic concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor. Prereq: Graduate. (Same as EDAD 8950)

8960 Introduction to Gifted Education of the Gifted (3) The course involves the processes of defining and identifying characteristics of giftedness, analyzing associated problems, examining collaborative approaches, and relating these to the overall education of gifted individuals. Prereq: Admission to Graduate College; one year teaching experience.

9100 Guiding Gifted Students (3) A course designed to increase teacher awareness of the social and emotional needs of gifted students. Teachers will also develop skills that will assist gifted students in meeting these developmental challenges. Prereq: Admission to graduate study. (Same as COUN 8910)

9200 Teaching the Gifted and Talented (3) This course will focus upon the processes for developing a total sequential K-12 program for the gifted and talented, as well as the practical program implications for the individual classroom. Prereq: Admission to Graduate College and TED 8920, or permission.
8930 Individualization of Instruction (3) The course involves the study of the philosophy of individualization and the provisions needed in the areas of curriculum, learning factors/styles, student and teacher roles and physical arrangements. Prereq: Admission to Graduate College.

8940 Individual Factors/Styles that Affect Teaching and Learning (3) The course involves the study of major learning style theories and various factors/styles that affect teaching and learning; including the rationale, the various models and criteria for evaluating their use with students and specific applications to the teaching of content within the classroom.

8950 Teaching Gifted Students in the Regular Classroom (3) This course involves an overview of the characteristics and special individual needs of gifted students, the screening and selection process, teaching and learning styles, parent information, and support services. The emphasis will focus on specific curricular design, teaching/learning strategies appropriate for gifted students taught in the regular classroom, resources/materials, and evaluation procedures for students and programs. Prereq: Graduate.

8960 Creativity (3) The course focuses upon defining and identifying the characteristics of the creatively gifted student, as well as studying educational models, program planning and teaching strategies. Prereq: Admission to Graduate College.

8970 Independent Study (1-3) Supervised independent study in special topics under the supervision of a faculty member. Prereq: Permission, Admission to Graduate College.

8980 Practicum in Teaching the Gifted K-12 (3) This supervised practicum in gifted education is designed to give field experience to the teacher whereby she/he may learn principles and educational procedures for teaching gifted students. Prereq: Admission to Graduate College and permission of instructor.

8990 Thesis (1-6) Independent research project required of all students taking Master of Arts degree. See Major adviser.

9100 Theories and Processes of Reading (3) This course is one of the foundation courses of the graduate reading program. The purpose of this course is to develop a framework about the theories, processes and related research associate with literacy. The content looks across grade levels and student populations, social and cultural contexts, in an examination of factors that impact on both theories and processes of literacy. Prereq: Graduate.

9110 Principles and Practices in Elementary Reading (3) This is a beginning graduate course for both elementary and secondary teachers and is open to any student who has graduate standing. Major emphasis will be given to the administration, organization, evaluation, and methods and materials for teaching reading from Kindergarten through the sixth grades. Prereq: Gradutes.

9120 Teaching Reading in the Secondary School (3) An advanced course in reading for elementary or secondary teachers. Major emphasis will be given to the administration, organization, evaluation, and methods and materials for the teaching of reading in each of the content subjects at the junior and senior high levels.

9170 Seminar in Organization and Administration of Reading Programs (3) Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and who 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. Prereq: One graduate reading course or permission of Instructor.

9180 Seminar in Reading Research (3) An advanced course for graduate and postgraduate students relating to in-depth studies of significant, recent research in reading with appropriate application for instructional procedures which may be undertaken. Each student will conduct self-initiated research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent), TED 8010 (or equivalent), and permission.

9360 Seminar in Applications of Non-Verbal Communication Theory (3) 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. Prereq: Course in research methods or permission of instructor.
URBAN STUDIES

Master of Science

This is a professional graduate degree which is designed: (1) to prepare students for human service careers in an urban setting; (2) for research or teaching in this field; (3) for those already involved in urban programs and are seeking additional professional training.

Qualified urbanists are being sought by a wide range of employers. Private corporations as well as public agencies are seeking employees who have a broad range of technical skills and an understanding of the problems of contemporary urban society.

Admission

The general prerequisite for admission to the Urban Studies Program is a Bachelor of Arts or Bachelor of Science degree or equivalent.

To be admitted unconditionally, the student must have achieved a grade average of 3.0 on a 4.0 system for either the full undergraduate program, for the undergraduate major of Urban Studies, or for the junior-senior years and must have completed all other admission requirements for Graduate Studies.

Provisional admission may be granted where the applicant has achieved a grade point average of 2.7 or above. Exceptions to the 2.7 grade point average may be made by the Graduate Program Committee in conjunction with the Graduate Dean where the applicant:

1. has a demonstrated record of work experience directly related to Urban Studies; and
2. has demonstrated through recent course work an ability to successfully complete graduate work.

Students who wish to take courses for professional growth or personal interest but who do not intend to pursue an advanced degree may be granted unclassified admission.

A detailed resume must be included with the application for admission.

Application for Candidacy

In accordance with Graduate College guidelines, students must apply for candidacy for the degree when: (1) a minimum of six hours of graduate credit necessary to the degree program has been completed; (2) a grade average of "B" with no grade lower than "C" or "C+" has been earned; (3) the student is not currently carrying "incompletes" within their area of study.

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

Application forms should be filled out by the student in consultation with a faculty adviser as soon as the student can qualify for admission to candidacy.

Transfer of Credit

Students may transfer up to one-third of the course work required for the Urban Studies degree requirements. This requires approval of the Graduate Program Committee. Students should discuss this with a faculty adviser. The request for transfer of credit should be made as soon as possible but in no case later than when filing for candidacy. The request to transfer credits requires a letter of explanation from the student.

Degree Requirements

Thirty-six semester hours of course work are required. A core of six required courses will be completed, and nine credit hours must be taken from one of three areas of concentration. The required courses include UBNS 8010, 8020, 8026, 8830, 8840 and a graduate course on research. Courses applicable to the area of concentration may include, but are not necessarily restricted to:

- Community and Regional Planning 8116, 8136, 8156, 8246; PA 8050, 8436, 8910; SOC 8106, 8146, 8756; GER 8016, 8126, 8136, 8466; COUN 8000, 8226, 8796; GEOG 8126, 8800, 8810. A maximum of nine hours of optional credit may be selected from ECON 8316, 8326, 8336, 8850; HIST 8436, 8446, 8476; GEOG 8016, 8136, 8216; or any of the courses listed above, subject to approval. Eighteen hours of the course work must be at the 8000 level. (A Master's thesis is not required.)

A comprehensive final examination is required, but a thesis is not required.

Course Descriptions

4060/8066 Introduction to Urban Planning (3) This course will serve as an introduction to the development of urban planning as it has shaped and reached to major trends in U.S. History. It will provide students with major themes and traditions in the field of planning and will include planning practice, planning procedures and methods and contemporary issues in the field.

4820/8820 Comparative Urban Studies (3) Emphasis will be upon contrasting the cities of the developed and developing areas of the world.

8010 The Metropolis as a Public Economy (3) The integration of politics and economics in the metropolitan system as they affect metropolitan problems such as poverty, transportation, housing, crime, education and the environment will be analyzed.

8020 Race, Ethnicity and American Urban Culture (3) This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and American culture.

8830-8840 Interdisciplinary Seminar On The Urban Community (3-6) An interdisciplinary course on the metropolitan community in which urban problems are put in a broad interrelated focus. (Same as GEOG 8830-8840, FSCI 8830-8840, SOC 8830-8840)
NON-DEGREE AREAS

AGRICULTURAL ECONOMICS
A graduate course in agricultural economics is offered on the campus of the University of Nebraska at Omaha by the University of Nebraska-Lincoln's Department of Agricultural Economics.

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

The Graduate Program Committee of the Department of Art and Art History has determined that a graduate minor in Art History shall consist of 9 credit hours of graduate level Art History courses, the specific courses to be approved by the Graduate Program Committee.

BLACK STUDIES
Graduate Black Studies courses may be used on a plan of study.

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

COMMUNITY AND REGIONAL PLANNING
The UNL College of Architecture, through its Department of Community and Regional Planning, offers graduate courses at UNO to serve the area's professional planners, governmental officials, interested citizens and students in related programs. A limited number of these courses will be offered at UNO and will apply towards the Master of Community and Regional Planning degree at UNL.

The Master of Community and Regional Planning (MCRP) degree program provides preparation for professional planning practice in the public, private and nonprofit sectors. Planning is an interdisciplinary problem-solving profession that influences a broad range of future-oriented decision making. Planners work with individuals, groups and organizations to formulate plans, policies and strategies through which desired change can be achieved. Planners utilize a wide variety of methods and techniques to identify problems and needs and to formulate plans of action that effectively address those needs. Planners often need to accommodate differing viewpoints in the process of formulating desirable and compatible plan and policy recommendations.

The MCRP degree program emphasizes the understanding of the importance and interrelationships among human resources, natural resources, socio-cultural characteristics, economic activity, political and institutional roles and characteristics of the natural and built environment. The program provides students with a sound foundation in planning theory, methods, process and application — a background which enables graduates to formulate, initiate and coordinate a broad range of planning and development actions.

The Master of Community and Regional Planning degree program is accredited by the Planning Accreditation Boards.

For more information regarding the Master of Community and Regional Planning program, please refer to the UNL Graduate Bulletin and contact the department office.

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

HOME ECONOMICS
Home Economics graduate offerings at UNO may be used as a minor (HDVF, HNFM or TXCD) for those pursuing programs in another discipline. The minor portion should be determined in consultation with a designated member of the Graduate Faculty from Home Economics. UNO courses may also be used to satisfy recertification.

Admission to the graduate programs in the College of Home Economics requires presentation of the baccalaureate degree from an accredited institution and GRE scores; three letters of recommendation and a goal statement; and TOEFL for international students for whom English is a second language. Departments within the college may determine specific course deficiencies.

Application for a graduate degree programs in Home Economics is to be made to Graduate Studies, Lincoln Campus. In addition to this, an important step to initiate a graduate program is to consult with the chairperson of the graduate program in Lincoln. Staff in the Omaha program will assist in making such appointments. For graduate degrees in Home Economics, it will be necessary to take home economics courses on the Lincoln campus.

Interdepartmental Home Economics program offers graduate work leading to the Master of Science or Master of Arts degree.

Students applying for study in the Interdepartmental Home Economics master's degree must hold a bachelor's degree in Home Economics or its equivalent. The undergraduate work must have included the equivalent of 24 hours in Home Economics, distributed in at least three subject matter areas and 20 hours in natural and social sciences including a minimum of nine hours in the natural and six hours in the social sciences.

Work leading to the master's degree in Home Economics may be completed under Option I or II (see Graduate Studies Bulletin-Lincoln). If Option I is selected the thesis research may be done in any one of the three cooperating departments. Under any option, not more than one-half of the total program for the master's degree, including thesis research when applicable, may be completed in the major subject matter areas. These subject matter areas are: Consumer Science and Education; Nutritional Science and Dietetics; Human Development and the Family; and Textiles, Clothing and Design.
At least six hours of the remaining work must be completed in one or more of the departments other than the major one. Additional supporting courses to complete the program may be carried in cooperating departments or in the departments outside of the College of Home Economics. However, if Option II is selected the required minor must be completed in HDFS, NSD, TXCD or a department other than those in the College of Home Economics, which can be an approved graduate program at UNO. Separate programs leading to the Master's degree also are offered in Human Nutrition and Foodservice Management, Human Development and the Family, and Textiles, Clothing and Design.

Human Nutrition and Food Service Management
Candidates for the Master of Science degree in Human Nutrition and Foodservice Management must hold a Bachelor of Science degree or a Bachelor of Arts degree from an accredited college; have completed undergraduate preparation the equivalent of that required in the Basic General Education Core in Home Economics; plus have at least 10 hours exclusive of freshman courses in biochemistry, in microbiology, and in physiology for a total of at least 18 hours in Nutritional Science and Dietetics, chemistry and biological science.

Human Development and the Family
Candidates for the Master of Science degree in Human Development and the Family must hold a Bachelor of Science or a Bachelor of Arts degree from an accredited college; have completed undergraduate preparation the equivalent of that required in the Basic General Education Core in Home Economics; plus a major of at least 18 hours exclusive of freshman courses in Human Development and the Family or the equivalent from psychology, educational psychology or sociology. A minimum of 3.0 undergraduate GPA is required.

Textiles, Clothing and Design
Students may qualify for study in this area by presenting a baccalaureate degree from an accredited institution and by completing a minimum of 12 hours of undergraduate course work beyond the freshman level in textiles, clothing and design or equivalent from a related area such as art or architecture. The Graduate Record Examination (general) is required. The graduate Area Committee will consider the qualifications for admission of applicants for study in textiles, clothing and design and leading to a Master of Science or Master of Arts degree and will make recommendations to the Graduate College. Deficiencies as assessed on an individual basis may be removed concurrently with graduate studies.

Consumer Science and Education
Consumer science and education is included in the Interdepartmental Home Economics program.

PHILOSOPHY AND RELIGION
Graduate courses in philosophy and religion are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.

PHYSICS
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
AGRICULTURAL ECONOMICS
8420 Agricultural Policy (3) An examination of policies and issues affecting the U.S. agricultural sector. Emphasis is placed on policy formulation and evaluation, future policy alternatives, and the interface of agricultural policy with other sectors of the U.S. and world economy. Prereq: Twelve hours of economics.

ART
4000/8006 Special Studies in Art Education (1-3) A series of intensive courses in the history and theory of art education designed specifically for elementary and secondary school art teachers. These courses are scheduled as special seminars or workshops according to purpose. Prereq: Graduate and permission of department.
4100-4110/8106-8116 Independent Study-Drawing (3) Advanced, individualized instruction in various graphic media, as determined by the student and instructor. Prereq: Permission. Lab fee required.
4310/8316 Advanced Sculpture (3) Advanced work in area of student's choice with facilities for oxyacetylene welding, arc welding and wood working. Prereq: Art 3510 and permission of instructor. Lab fee required.
4410/8416 Advanced Painting (3) Instruction in various painting media permits each student the time to work and develop individually. Strong emphasis on knowledge of contemporary art. Prereq: ART 3410 and permission of instructor. Lab fee required.
4510/8516 Advanced Techniques in Printmaking (3) Intaglio and lithography stressing color and technical proficiency in both media. Strong emphasis on image and content development. Prereq: For 6516: ART 2510, 3510 and permission of instructor. Lab fee required.
4610/8616 Advanced Ceramics (3) Advanced work on the potter's wheel, glaze composition, loading and firing of gas and electric kilns. Prereq: For 4610, ART 3510. For 8616, permission.
4750/8756 Classical Art History (3) A study of painting, sculpture, architecture and minor arts of the classical world beginning with Cycladic art and including Minoan, Mycenaean, Greek, Etruscan and Roman art through 300 B.C. Prereq: Graduate and permission of instructor. Lab fee required.
4750/8756 Late Roman and Byzantine Art History (3) A study of painting, sculpture and architecture of the Eastern Roman Empire from the founding of Constantinople, and of Western Europe from the time of Constantine to the dissolution of the Western Roman Empire. Prereq: Graduate and permission of instructor. Lab fee required.
4770/8776 Early Medieval Art History (3) A study of painting, sculpture, architecture and art of Western Europe from the time of the Migrations to 1150 A.D. Prereq: Graduate and permission of instructor. Lab fee required.
4810/8816 Northern European Renaissance Art History (3) A study of painting, sculpture and architecture during the 14th, 15th and 16th centuries in France, the Low Countries, Germany, Spain and England. Prereq: Graduate and permission of instructor. Lab fee required.
4830/8835 Italian Renaissance Art History (3) A study of painting, sculpture and architecture in Italy during the 14th, 15th and 16th centuries. Prereq: Graduate standing and permission of instructor. Lab fee required.
4850/8856 Baroque and Rococo Art History (3) A study of painting, sculpture and architecture in Europe during the 17th and 18th centuries. Prereq: Graduate and permission of instructor. Lab fee required.
4860/8866 Modern Art History to 1945 (3) A study of the art of the Western world from the end of the 19th century to the Second World War, including major developments in painting, sculpture and architecture. Prereq: Graduate and permission of instructor. Lab fee required.
4880/8886 Nineteenth Century European Art History (3) A study of the art of Europe from the French Revolution to the age of Impressionism, including developments in painting, sculpture and architecture. Major emphasis will be placed on achievements in painting in France, England and Germany. Prereq: Graduate and permission of instructor.
4900/8906 Contemporary Art History Since 1945 (3) A study of the art of the Western world since the Second World War, including major developments in painting, sculpture and architecture. Prereq: Graduate and permission.
8310 Graduate Sculpture (3) Advanced problems in sculptural media. Prereq: 8316. Lab fee required.
NON-DEGREE AREAS

8410 Graduate Painting (3) More complex problems in the oil medium and related material. Prereq: ART 8416. Lab fee required.

8510 Special Processes in Printmaking (3) Advanced problems in printmaking, stressing special processes in lithography, intaglio and collagraph. Strong emphasis on image and content development. Prereq: ART 4510 and permission. Lab fee required.

8910 Independent Study in Art History (3) Independent research under the direct supervision of the sponsoring faculty member, generally involving the writing of a paper. The topic of the research and the expectations for credit should be jointly agreed upon in writing by the student and the faculty member at the beginning of the semester. Prereq: Permission of instructor.

8930 Special Topics in Art History (3) An illustrated lecture course dealing with a limited topic in art history. The course may be coordinated with an external event such as an exhibition, publication or study trip. Prereq: To be determined by the instructor, based upon the preparation required for an adequate understanding of the material of the course.

BLACK STUDIES

8080 Special Topics in Black Studies (3) The content of this course will change periodically. Each time this course is offered it will focus, in detail and in depth, on some aspect of the black experience, such as language and dialect, historiography and historiocity, theology and religion, musicology, and literature. Students may repeat this course as often as they like, as long as a specific subject is not duplicated. Prereq: Graduate, bachelor's degree or permission of instructor.

CHEMISTRY

All courses cited as prerequisites for enrollment in Chemistry must be completed with a grade of "C" or better.

3350/4355 Physical Chemistry (3) A presentation of selected topics from the areas of classical thermodynamics and electrochemistry. Prereq: CHEM 2260, 2264 or 2274, 2400, 2404, PHYS 2120, MATH 1900.

3354/4359 Physical Chemistry Laboratory (1) Physical chemistry laboratory to be taken concurrently with CHEM 3350. Prereq: CHEM 2260, 2264 or 2274, 2400, 2404, PHYS 2120, MATH 1900.

3414/4419 Instrumental Methods (1) Laboratory course involving use of modern instrumentation to conduct analytical determinations following standard methods. Topics include use of standards, field sampling and sample storage. Prereq: Graduate and CHEM 2400, 2404 or equivalent.

3424/4429 Spectrophotometric Determinations (1) Laboratory course involving use of spectrophotometric instrumentation for the identification of compounds containing organic functional groups. Prereq: CHEM 2295, 2274, 2400 and 2404.

3514/4515 Inorganic Preparations (1) Laboratory preparation and characterization of representative inorganic compounds by various standard and special techniques. Prereq: CHEM 2274, 2400, 2404, 2500.

3520/4525 Physical Chemistry Laboratory (1) Physical chemistry laboratory to be taken concurrently with CHEM 3520. Prereq: CHEM 3550, 3354.

3700/4705 Radiochemistry (2) Lecture two hours and discussion one hour. A survey of the basic principles of radiochemistry and their application in the fields of biology, chemistry and medicine. CHEM 3704 to be taken concurrently. Prereq: CHEM 3360/4365 which may be taken concurrently or graduate.

3704/4709 Radiochemistry Laboratory (1) Introductory radiochemistry laboratory to be taken concurrently with CHEM 3700. Prereq: CHEM 3360/4365 which may be taken concurrently or graduate.

4200/5200 Advanced Organic Chemistry (3) An advanced lecture course in modern theories and special topics in organic chemistry. Prereq: CHEM 2260 and 3360/4365 which may be taken concurrently or graduate.

4202/5202 Advanced Organic Chemistry (2) An advanced lecture course in organic chemical reactions. Prereq: CHEM 2260 and 3360/4365 which may be taken concurrently or graduate.

4400/5400 Instrumental Analysis (3) Study of instrumentation for use in quantitative and trace analysis. Advanced instrumental methods and electronics for instrumentation are included. Prereq: CHEM 3560, 3564, 3410.

4404/5404 Instrumental Analysis Laboratory (1) Investigation of instrument performance and use of instrumentation in quantitative and trace analysis to be taken concurrently with CHEM 4400/5400. Advanced instrumental methods and electronics for instrumentation are included. Prereq: CHEM 3360, 3364, 3410.

4500/5500 Advanced Inorganic Chemistry (3) Theories of chemical bonding, the determination of chemical structures and the application of modern chemical theory to classical and recent problems in inorganic chemistry. Prereq: CHEM 2500, 3360/4365 which may be taken concurrently or graduate.

4650/5650 Biochemistry (3) Chemistry and biochemistry of proteins, carbohydrates and lipids. Enzymes and energetics. Biological oxidation. CHEM 4654 to be taken concurrently. Prereq: CHEM 2260, 2264 or 2274, and 3360/4365 which may be taken concurrently or graduate.

4850/5850 Biochemistry Laboratory (1) Biochemistry laboratory for CHEM 4650. CHEM 4650 to be taken concurrently. Prereq: CHEM 2260, 2264 or 2274, and 3360/4365 which may be taken concurrently or graduate.

4860/5866 Biochemistry (3) Intermediary metabolism of carbohydrates, lipids, amino acids, and nucleotides. Structure of nucleic acids. Replication, transcription and translation. CHEM 4694 to be taken concurrently. Prereq: CHEM 4650, 4654, and 3360/4365 which may be taken concurrently or graduate.

COMMUNITY AND REGIONAL PLANNING

8006 Introduction to Planning (3) The field of community and regional planning is introduced and is studied in relation to the history of cities, urbanization, and regionalization. The course explores the origins and evolution of American urban and regional planning practice. The planning process, public policy, social, political, environmental, and economic factors is analyzed. The course introduces the community comprehensive planning process, plan implementation, and functional areas of planning.

8020 Planning Theory (3) Linkages between knowledge and organized action in planning practice are analyzed in terms of philosophical underpinnings, decision theory, programming, policy formulation, political contexts, values and social change. The historical traditions of contemporary planning theory are studied. The course explores the origins of American urban and regional planning practice. The planning process, public policy, social, political, environmental, and economic factors is analyzed. The course introduces the community comprehensive planning process, plan implementation, and functional areas of planning.

8056 Special Topics in Chemistry (1-3) Selected special topics in chemistry. Prereq: CHEM 2260, 2400. Some topics will require more advanced prerequisites and will be accepted for advanced course work in chemistry.

8400/9400 Research in Chemistry (Arranged) Experimental or theoretical work in chemistry or an interdisciplinary field involving chemical analysis and communication of results. Prereq: Permission of Instructor.

8580/9580 Research in Chemistry (Arranged) Experimental or theoretical work in chemistry or an interdisciplinary field involving chemical analysis and communication of results. Prereq: Permission of Instructor.

8620 Planning Theory (3) Linkages between knowledge and organized action in planning practice are analyzed in terms of philosophical underpinnings, decision theory, programming, policy formulation, political contexts, values and social change. The historical traditions of contemporary planning theory are studied. The course explores the origins of American urban and regional planning practice. The planning process, public policy, social, political, environmental, and economic factors is analyzed. The course introduces the community comprehensive planning process, plan implementation, and functional areas of planning.

8650/9650 Biochemistry (3) Chemistry and biochemistry of proteins, carbohydrates and lipids. Enzymes and energetics. Biological oxidation. CHEM 4654 to be taken concurrently. Prereq: CHEM 2260, 2264 or 2274, and 3360/4365 which may be taken concurrently or graduate.

8660/9666 Biochemistry Laboratory (1) Biochemistry laboratory for CHEM 4650. CHEM 4650 to be taken concurrently. Prereq: CHEM 2260, 2264 or 2274, and 3360/4365 which may be taken concurrently or graduate.
FOREIGN LANGUAGES

French
4010/8016 Advanced Conversation and Composition (3) Further practice in oral fluency and writing skills along with grammar review and stylistics. Prereq: FREN 3150 or 3160 or 3170 or 3180 or 3200 or any 300 level French. (Same as ENGL 3980/7980)
4180/8186 Modern French Women Authors (3) A comparative treatment of works by women in contemporary and recent French literature; the feminine perspective on society, politics and human values as expressed in those works. Conducted entirely in French. Prereq: FREN 3150 or 3160 or permission of instructor.
4190/8196 Advanced Conversation and Composition (3) An intensive familiarization of the student with the broad spectrum of folklore in modern and ancient society of the Indo-Germanic continuum. Definition of folklore as an academic field and the delineation of the material studied by the student of folklore. Introduction to the folklorists' methodology in collecting, archiving and research. To be taught in English. Prereq: For 4100, at least three credit hours in any of the following areas: Anthropology, art, music, literature, psychology, sociology or history. For 8100, graduate and permission.
4210/8216 German Literature of the 19th Century (3) Survey of the literature of the 19th century from Romanticism to Naturalism. Prereq: GERM 3150 or permission of instructor.
4320/8326 German Literature of the 20th Century (3) Survey of literature of the 20th century from Expressionism to the literature after World War II. Prereq: GERM 3150 or permission of instructor.
4380/8385 German Civilization from the 18th Century to the Present (3) Detailed analysis of German art, architecture, literature, music and philosophy. The influence of the sciences and technology upon modern German civilization and culture. Prereq: For 4380, permission of instructor. For 8385, graduate and permission of instructor.
4400/8406 German Novels (3) Survey of the German short story, its historical origin, characteristics. Prereq: GERM 3150 or permission of instructor.
4440/8446 German Drama (3) History of drama development, study of several of the more important dramas. Prereq: GERM 3150 or permission of instructor.
4490/8496 German Literature of the 17th Century (3) The principal dramatic, epic and lyric works of 17th century German literature. Prereq: GERM 3150 or permission of instructor.
4500/8506 German Literature of the 18th Century (3) A study of representative authors of the Enlightenment, storm and stress, and German classicism: Lessing, Herder, Schiller and Goethe. Prereq: Permission of instructor.
4510/8516 Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; contains language description, history, theory, variation and acquisition as well as semantics, lexicography and foreign language teaching. Prereq: Junior standing or permission.
4580/8586 Bibliography and Methodology (1-2) An introduction to the basic bibliography and methodology of German literature and language. Prereq: Permission of instructor.
4900/8906 Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.
4960/8966 Proseminar (1-3) A detailed study of narrower phases of literature, language or culture. Prereq: Permission of instructor.

Spanish
4010/8016 Advanced Conversation and Composition (3) For graduate students who need a refresher course in conversation, grammar and composition. Prereq: Graduate.
4110/8116 Theater of the Golden Age (3) For Most Spanish dramatists and playwrights of the 16th and 17th centuries, with emphasis on Lope de Vega, Tirso de Molina and Calderon de la Llaza. Prereq: For 4100, SPAN 3150 or permission of instructor.
4180/8186 Chicano Literature and Culture (3) In English. A study of the representative works of Mexican-American, Spanish-American, and American writers, along with their cultural and historical antecedents. Does not apply toward foreign language requirements. Prereq: Permission of instructor. (Same as ENGL 4220/8220)
4220/8226 Latin American Novel (3) Study of representative novels and novelists of the 19th and 20th centuries, with emphasis on contemporary authors. Prereq: SPAN 3220 or permission of instructor.
4240/8246 Generation of 1929 (3) Examination of the ideology, philosophy and literary techniques of Unamuno, Martinez Ruiz, Valle-Inclan, Baraja and Antonio Machado. Prereq: SPAN 3160 or permission of instructor.
4350/8355 Latin American Short Story (3) Representative stories of the 19th and 20th centuries, from Romanticism to current production. Prereq: SPAN 3160 or permission of instructor.
4580/8586 Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation and acquisition as well as semantics, lexicography and foreign language teaching. Prereq: Junior standing or permission.
4900/8906 Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.
4960/8966 Proseminar (1-3) A detailed study of narrower phases of literature, language or culture. Prereq: Permission of instructor.

HOME ECONOMICS

*Courses offered only at the University of Nebraska-Lincoln.

Consumer Science and Education
8930 Special Topics (1-6) Prereq: Twelve hours home economics or permission of department chairperson.
Human Development and the Family
4720/8726 The Adolescent In the Family (3) Study of the scientific literature concerning the interrelationships of the physiological, psychological and sociological aspects of the adolescent and young adulthood years. Emphasis on understanding the individual and his/her continuous adjustment within the family life cycle as he/she makes the transition from childhood to adulthood. Prereq: Twelve hours of HDVF or social sciences.  
4810/8816 Family Violence (3) A study of the literature on family violence including child abuse, spouse abuse and elder abuse. The course examines theories of family violence as well as causes, characteristics and treatment. Prereq: Twelve hours human development and the family and social sciences.  
4960/8966 Independent Study (1-5) Individual projects in research, literature review or creative production may or may not be an extension of course work. The work will be supervised and evaluated by departmental faculty members. Prereq: Twelve hours in major department or closely related areas and permission.  
4970/8976 Practicum in HDVF (1-3) Appropriate fieldwork experiences in area(s) of specialization within the department, for example: early childhood, parent education, physical or mental handicaps, gerontology, marriage and family counseling. Prereq: Twelve hours of HDVF or permission of instructor, as required for individual options.  
8650 Research Design and Methodology (3) Analysis and evaluation of current research. Study of design and methodology and use of appropriate measurement, controls and statistics. Design and conduct model research. Prereq: Graduate, permission of instructor.  
8826 Parent Education (3) Study of methodologies and programs in parent education. Prereq: Twelve hours human development and the family and social sciences.  
8860 Divorce and Step Parenting (3) Various aspects of divorce, remarriage and step parent are addressed in light of social, legal, individual, family and community implications. Prereq: Twelve hours human development and the family and social sciences.  
9890 Masters Thesis (6-10)  
9920 Problems In Home and Family Life (1) A Family Crises; E. Theories of Family Relationships and Family, Prereq: HDVF 8800 or equivalent.  
9940 Theories of Family Relations (3-12) Graduate seminar that examines in depth the sociological, psychological and developmental literature related to various special topics in this field of study. Prereq: Twelve hours of HDVF, psychology, educational psychology or sociology.  
9960 Research Other Than Thesis (1-6) Prereq: Graduate and permission of instructor.  

Nutritional Science and Hospitality Management  
4530/8536 Cultural Aspects of Diet (3) Cultural approach to development of the dietary patterns of various population groups. Factors involved in food habit alteration. Offered alternate years only. Prereq: Nine hours of human economics, social sciences or permission of instructor.  
4560/8566 Hospitality Facility Planning and Design (2) Planning and design essentials for the hospitality industry which results in efficient resource utilization in the production of quality food and service. Selection and specification of food service equipment and furnishings. Field trips to local equipment houses. Prereq: NSHM 3700 or permission of instructor.  
4710/8716 Purchasing for the Hospitality Industry (2) Purchasing and specification of food, beverages and non-food supplies for use in the hospitality facility. Assessment and evaluation of purchases in relationship to production needs and cost control. Field trips to local food distribution and food service establishments. Prereq: NSHM 3700 or permission. (Same as NSHM 471B/871B)  
4714/8719 Purchasing for the Hospitality Industry Laboratory (2) Purchasing and specification of food and beverages, and non-food supplies, for use in the hospitality facility. Assessment and evaluation of purchases in relationship to production needs and cost control. Field trips to local food distributors and food service establishments. Prereq: NSHM 3700 or permission. (Same as NSHM 471B/871B)  
4793/8793 Computer Management Laboratory (1) Principles of modern organization theory and business strategy applied to the hospitality industry. Offered concurrently with 8790. Prereq: NSHM 3700.  
4760/8766 Hospitality Management Study Tour (1-6) A learning experience for broadening the scope of experience and developing a more thorough understanding of the hospitality industry and its problems. The experience includes visits to the hospitality facilities, retail food and equipment show, food processors, equipment manufacturers and trade exchanges. Number of credits determined by tour length, assignment and sites visited. Prereq: NSHM 2420, 3700, 8716. Lab fee required.  
4970/8976 Practicum In Hospitality Management (3-6) Professional experience under supervision in the hospitality industry as planned for individual student’s interests, needs and background. Prereq: Permission of instructor.  
4980/8986 Research Experiences (1-5) Participation in an ongoing research project. Select from foods, human, nutrition education, small animal or survey research areas. Prereq: Permission of instructor.  
9530 Ecology of Malnutrition (3) Fundamental principles underlying the current world nutrition problems. Investigation of projected future problems and schemes for their prevention or solution. Prereq: NSHM 8500 and 8550, or permission of instructor.  

Textiles, Clothing and Design  
4440/8446 Historic Interiors I (3) A study of the history and development of European interiors and furnishings from the ancient world through the French and English styles of the early 19th century. Prereq: Junior, ART 2550 or 2560.  
4450/8456 Historic Interiors II (3) A study of the history and development of international interiors and furnishings including American styles from the 19th century to the present with emphasis on the changes produced by 19th and 20th century technologies. Prereq: TCD4440/8446.  

PHILOSOPHY AND RELIGION  

Philosophy  
3050/8055 The Philosophy of Space Exploration (3) This course deals mainly with the justification of space exploration in the face of conflicting needs. Topics to be studied include objections to the space program and responses to them, spin-off benefits, space industrialization, planetary and interstellar exploration, space colonies, search for life elsewhere and other related theoretical issues. Prereq: Graduate or permission of instructor. (Same as Phys 3050/8055)  
4650/8656 Philosophy of Mind (3) A discussion of various accounts of the nature of minds which focuses upon philosophical problems such as whether the mind is identical with the brain, the extent of similarities between human minds and computers, the nature of personal identity and the relationship of mental activity to behavior.  
8900 Readings In Philosophy (3) An individually organized program of readings pertinent to one or more topic subordinates to the heading of Philosophy. To be carried out under the supervision of a member of the graduate faculty. May be repeated once for credit. Prereq: Graduate, permission of instructor, and no “incompletes” outstanding.  

Religion  
4150/8156 Judaism in the Modern Age (3) A critical investigation of Judaism since the Enlightenment emphasizing historical, intellectual and religious-legal developments. Pivotal movements (e.g., Hasidism, Reform, Historical/Conservative Judaism, Modern Orthodoxy, Zionism) and major historical events (e.g., the American and French Revolutions, Tsarist oppression, the Holocaust and the establishment of the State of Israel) will be analyzed for their ongoing impact. Prereq: Nine hours in religion or permission of instructor.  
4300/8306 Existentialism and Religious Thought (3) A study of existentialism in its theistic (e.g., Kierkegaard) and atheistic (e.g., Sartre) forms, and its impact on recent Jewish and Christian thought.  
8900 Readings In Religion (3) An individually organized program of readings pertinent to one or more topics subordinate to the heading of Religion. To be carried out under the supervision of a member of the graduate faculty. May be repeated once for credit. Prereq: Graduate, permission of instructor, and no “incompletes” outstanding.  

PHYSICS  
3010/8015 Elements of Electronics (3) The background of theory, operation and practice of electronic devices and circuits particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved. Prereq: MATH 1950, 1960, 1970 and PHY 1120 or 2120. 

3020/8025 Optics (3) The behavior of electromagnetic radiation as disclosed by studies of geometrical, wave and quantum optics. Topics include reflection and refraction, matrix methods in paraxial optics, lasers and holography, the human eye, interference, coherence, polarization, Fraunhofer and Fresnel diffraction. Prereq: PHYS 1120 or 2120 and MATH 1970.

3050/8055 The Philosophy of Exploration (3) This course deals mainly with the justification of space exploration in the face of conflicting needs. Topics to be studied include objections to the space program and responses to them, spin-off benefits, space industrialization, planetary and interstellar exploration, space colonies, search for life elsewhere, and other related theoretical issues. Prereq: For PHYS 3050: Junior or permission of instructor. For PHYS 8055: graduate or permission of Instructor. (Same as PHIL 3050/8055).

3150/8155 Modern Developments in Physics (3) A resume of the most important discoveries, changes and new concepts gleaned from the last decade of research in physics. Superconductivity, lasers, masers, superfluidity, ultra large magnetic fields, space plasmas, nuclear fusion power, etc. Designed for updating physical science concepts for science majors and for science teachers. Prereq: 1120 or 2120.

3160/8165 Current Topics in Science (1-3) The subject matter of this course will generally not be presented in a standard physics course and may be of an interdisciplinary nature. The specific topics and prerequisites will be listed in the schedule. Prereq: Permission of Instructor.

3450/8455 Classical Mechanics (3) Statics and dynamics of particles and rigid bodies including the equations of Lagrange and Hamilton. Prereq: MATH 1950, PHYS 3250 or permission.


3850/8855 Thermodynamics and Statistical Physics (3) Topics include: equations of state, the four laws of thermodynamics, phase changes, thermodynamic potentials, kinetic theory and transport processes, classical and quantum statistics of an ideal gas (e.g., blackbody radiation). Possible applications to be included: Einstein theory of a solid, paramagnetism, conduction of electrons and collapsed, degenerate stars. Prereq: PHYS 2120 or 2160) and MATH 1970.

4200/8206 Introduction to Quantum Mechanics (3) This course provides an introduction to the historical development of modern physics and to the Schrödinger formulation of quantum mechanics. Specific topics will include square well potential barriers, simple harmonic oscillator potential and the hydrogen atom. Characteristics of multi-electron atoms, including angular momentum coupling schemes, spectra and transition rules. Prereq: PHYS 3250 or permission.

4210/8216 Quantum Theory (3) The matrix operator formalism is covered along with philosophical implications of this approach. The methods developed will be applied to simple harmonic oscillator and hydrogen atom potentials. Raising and lowering operators, creation-annihilation operators, and first and second order perturbation theory will be discussed. Prereq: PHYS 4200 or permission.

4220/8226 Physics of Molecules and Solids (3) This course covers the various types of atomic bonding found in molecules and solids. Electronic energy levels and spectra of molecules will be discussed. Topics in solid state physics will include mechanics and thermodynamics of crystals, the scattering of waves including x-ray and neutron scattering, electron scattering and phonon and photon interactions. Prereq: PHYS 4220/8226 or permission of instructor.

4230/8236 Special Relativity and Nuclear Physics (3) This course includes a brief historical background of the development of relativity theory and the importance of the experiments performed in conjunction with it. Lorentz transformations and covariant formalism will be developed and applied to certain problems in mechanics and electricity and magnetism. The nuclear physics portion of the course will include the historical development of the concept of the nuclear atom. Theoretical models of nuclear structure will be discussed, along with the theory of alpha, beta and gamma decay. Artificial nuclear reactions and elementary particles will be covered. Prereq: PHYS 4200/8206 or permission of instructor.

4350/8356 Astrophysics (3) This course introduces the fundamental of astrophysics to students with a prior knowledge of physics and mathematics. A review will be given of light and telescopes, classical and quantum mechanics and special relativity. Basic laws of physics will be applied to various topics such as: the sun, nuclear fusion and particle physics, evolution and end state of stars, interstellar medium, galaxies and cosmology. Prereq: PHYS 2130 or 4120 and MATH 1970. Recommended: PHYS 1320.

4950-4960/8955-8965 Problems in Physics (Each 1-3) Individual laboratory and/or library work in some field of energy. Prereq: General physics and permission of instructor. For 4960: 4950 and permission of Instructor.
Right: Mark Wohar, Ph.D., associate professor of economics in UNO's College of Business Administration, is the 1993 recipient of the University's Award for Distinguished Research or Creative Activity. Dr. Wohar's area of research is macro economics and monetary theory. Widely published in the areas of international finance and financial institutions, he is writing his first book entitled Financial Institutions, Markets and Instruments.

Bottom: A fresh winter snow covers the ground around the administrative offices of UNO's College of Public Affairs and Community Service. The College incorporates the Center for Public Affairs Research, Criminal Justice, Gerontology, the Goodrich Program, Public Administration and the School of Social Work.
GRADUATE FACULTY

ROBERT A. ABDULLAH (GF) Finance and Banking, Ph.D., University of Pennsylvania, 1957; Professor
JAMES C. AKERS Special Education and Communication Disorders, Ed.D., Oklahoma State University, 1969; Associate Professor
HESHAM ALI Mathematics and Computer Science, Ph.D., University of Nebraska-Lincoln, 1988; Assistant Professor
DAVID M. AMBROSE (GF) Marketing, D.B.A., George Washington University, 1971; Professor
SUNNY ANDREWS Social Work, Dr.P.H., Johns Hopkins University, 1973; Professor
ANN E. ANTLFINGER (GF) Biology, Ph.D., University of Georgia, 1976; Associate Professor
AARON ARMFIELD Special Education and Communication Disorders, Ed.D., University of Northern Colorado, 1964; Professor
JACK L. ARMITAGE Professional Accounting, Ph.D., University of Nebraska-Lincoln, 1987; Assistant Professor
WALTER M. BACON JR. Political Science, Ph.D., University of Denver, 1974; Associate Professor
BRUCE P. BAKER II English, Ph.D., Texas Christian University, 1968; Professor
W. KENTON BALES (GF) Music, D.M.A., North Texas State University, 1980; Professor
ALVA BARNETT Social Work, Ph.D., University of Pittsburgh, 1980; Associate Professor
OTTO F. BAUER (GF) Communication, Ph.D., Northwestern University, 1955; Professor
DONALD BAUM Economics, Ph.D., Claremont Graduate School, 1968; Associate Professor
GORDON M. BECKER (GF) Psychology, Ph.D., University of Pittsburgh, 1955; Professor
JOSEPH V. BENAK Civil Engineering, Ph.D., University of Illinois-Urbana, 1967; Professor
ROBERT W. BENECKE Finance and Banking, D.B.A., University of Colorado-Boulder, 1962; Professor
KURT E. BERO (GF) Health, Physical Education and Recreation, Ed.D., University of Missouri-Columbia, 1973; Professor
JOSEPH BERTINETTI Counseling, Ph.D., University of New Mexico, 1973; Associate Professor
JAYARAN BETANABHATLA (GF) Physics, Ph.D., Indian Institute, 1983; Assistant Professor
SHEREE N. BINGHAM Communication, Ph.D., Purdue University, 1985; Assistant Professor
DANIEL BLANKE Health, Physical Education and Recreation, Ph.D., University of Oregon, 1975; Associate Professor
WILLIAM BLIZEK (GF) Philosophy and Religion, Ph.D., University of Missouri-Columbia, 1970; Professor
DANIEL BOAMAH-WIAFE Black Studies, Ph.D., University of Wisconsin, 1978; Associate Professor
JUDITH E. BOSK (GF) English, Ph.D., Texas Christian University, 1971; Professor
LAWRENCE J. BRADSHAW (GF) Art, M.F.A., Ohio University, 1973; Professor
THOMAS BRAGG (GF) Biology, Ph.D., Kansas State University, 1974; Professor
FRANK M. BRASILE (GF) Health, Physical Education and Recreation, Ph.D., University of Illinois, 1986; Associate Professor
M. JEAN BRESSLER Teacher Education, Ph.D., University of Nebraska-Lincoln, 1965; Associate Professor
JOSEPH BROWN Psychology, Ph.D., Michigan State University, 1991; Assistant Professor
WILL A. BRUCE (GF) Public Administration, Ph.D., Virginia Polytechnic Institute, 1965; Associate Professor
SIDNEY BUCHANAN Art, M.A., New Mexico Highlands University, 1963; Professor
DAVID M. BUEHLHANN (GF) Accounting, Ph.D., University of Illinois-Urbana, 1975; Professor
DALE M. BUNSEN Teacher Education, Ed.D., University of Nebraska-Lincoln, 1968; Professor
HOBART BURCH Social Work, Ph.D., Brandeis University, 1965; Professor

RONALD R. BURKE (GF) Philosophy and Religion, Ph.D., Yale University, 1974; Professor
ROBERT R. BUTLER (GF) Counseling, Ph.D., University of Missouri-Columbia, 1970; Professor
LOREE BYKERK Political Science, Ph.D., Columbia University, 1977; Associate Professor
WILLIAM G. CALLAHAN Special Education and Communication Disorders, Ph.D., Ohio State University, 1971; Associate Professor
H. CARL CAMP Political Science, Ph.D., Washington University, 1965; Professor
ROBERT E. CARLSON Communication, Ph.D., Purdue University, 1976; Associate Professor
JOAN CARRIGAN (GF) History, Ph.D., Louisiana State University, 1961; Professor
JAMES A. CARROLL Chemistry, Ph.D., Simon Fraser University, 1976; Assistant Professor
JERRY B. CEDERBLOM (GF) Philosophy and Religion, Ph.D., Claremont Graduate School, 1972; Professor
BRUCE CHASE Biology, Ph.D., Yale University, 1966; Assistant Professor
BING CHEN (GF) Electronics Engineering Technology, Ph.D., University of Nebraska-Lincoln, 1978; Professor
HENGXIN CHEN Mathematics and Computer Sciences, Ph.D., Louisiana State University, 1988; Assistant Professor
JOHN E. CHRISTENSEN Special Education and Communication Disorders, Ph.D., University of Kansas, 1960; Associate Professor
JOONG-GUN CHUNG Political Science, Ph.D., Claremont Graduate School, 1971; Professor
WILLIAM T. CLUTE Sociology and Anthropology, Ph.D., University of Minnesota-Minneapolis, 1969; Associate Professor
MAURICE W. CONNER Foreign Languages and Literature, Ph.D., University of Nebraska-Lincoln, 1973; Professor
DAVID F. CONWAY Special Education and Communication Disorders, Ed.D., University of Cincinnati, 1965; Associate Professor
JAMES J. CONWAY Information Systems and Quantitative Analysis, D.B.A., Texas Technical University, 1970; Professor
DAVID E. CORBIN (GF) Health, Physical Education and Recreation, Ph.D., University of Pittsburgh, 1961; Professor
WILLIAM J. CORCORAN Economics, Ph.D., Rutgers University, 1975; Associate Professor
KATHY COUFAI Special Education and Communication Disorders, Ph.D., University of Nebraska-Lincoln, 1989; Assistant Professor
HUGH P. COWDIN Communication, Ph.D., University of Iowa, 1968; Professor
ANN COYNE (GF) Social Work, Ph.D., University of Nebraska-Lincoln, 1980; Professor
FRANCOIS MARIE CRISARA Music, DMA, University of Texas, 1966; Associate Professor
MARY JULIA CURTIS (GF) Dramatic Arts, Ph.D., Indiana University, 1966; Professor
JAMES C. CZARNECKI Art History, Ph.D., Indiana University, 1976; Associate Professor
HARL A. DALSTROM (GF) History, Ph.D., University of Nebraska-Lincoln, 1965; Professor
KATHY DANIELSON (GF) Teacher Education, Ph.D., University of Nebraska-Lincoln, 1987; Assistant Professor
HAROLD L. DAVIS Industrial Technology, Ed.D., University of Nebraska-Lincoln, 1970; Professor
JOE L. DAVIS Counseling, Ed.D., University of South Dakota, 1969; Associate Professor
GARY DAY (GF) Art, M.F.A., Florida State University, 1976; Associate Professor
KENNETH A. DEFFENBACKER (GF) Psychology, Ph.D., University of Washington, 1968; Professor
WILLIAM DEGRAW (GF) Biology, Ph.D., Washington State University, 1972; Professor
DONALD C. DENDINGR Social Work, Ph.D., University of Denver, 1977; Professor
ROBERT J. DETI SCH English, Ph.D., University of Wisconsin-Madison, 1967; Associate Professor
ARTHUR DIAMOND (GF) Economics, Ph.D., University of Chicago, 1978; Professor
GRADUATE FACULTY

JAMES DICK (GF) Teacher Education, Ed.D., Indiana University, 1974; Professor
J. SCOTT DOUMING Mathematics and Computer Science, Ph.D., Michigan State University, 1989; Professor
RICHARD DUGGIN Writer's Workshop, M.F.A., University of Iowa, 1968; Professor
ROBERT SHAW EGAN (GF) Biology, Ph.D., University of Colorado-Boulder, 1971; Professor
KENNETH G. ELLER Foreign Languages and Literature, Ph.D., University of Kansas, 1969; Professor
HESHAM EL-REWINI Mathematics and Computer Science, Ph.D., Oregon State University, 1989; Assistant Professor
GEORGE F. ENGELMANN Geography-Geology, Ph.D., Columbia University, 1978; Associate Professor
CHRIS W. ESKRIDGE (GF) Criminal Justice, Ph.D., Ohio State University, 1978; Professor
JOHN T. FARR Political Science, Ph.D., University of Texas-Austin, 1969; Associate Professor
JAMES D. FAWCETT Biology, Ph.D., University of Colorado, 1975; Associate Professor
RICHARD G. FILE Accounting, Ph.D., University of Texas, 1981; Associate Professor
JOHN W. FLOCKEN (GF) Physics, Ph.D., University of Nebraska-Lincoln, 1969; Professor
RICHARD B. FLYNN (GF) Health, Physical Education and Recreation, Ed.D., Columbia University, 1970; Professor
ROGER E. FOLTZ (GF) Music, Ph.D., University of Texas at Austin, 1977; Professor
FRANK S. FORBES (GF) Law and Society, J.D., University of Iowa, 1963; Professor
WARREN T. FRANCKE (GF) Communication, Ph.D., University of Minnesota, 1974; Professor
JEFFREY A. FRENCH (GF) Psychology, Ph.D., University of Wisconsin-Madison, 1982; Professor
EUGENE H. FREUND Teacher Education, Ed.D., Wayne State University, 1969; Professor
RICHARD FREUND (GF) Philosophy and Religion, Ph.D., Jewish Theological Seminary, 1963; Associate Professor
STEVEN FROM (GF) Mathematics and Computer Science, Ph.D., 1980; Associate Professor
JACK FRYMIER (GF) Teacher Education, Ed.D., University of Florida, 1957; Professor
DENNIS A. FUS Communication, Ph.D., Indiana University, 1972; Assistant Professor
DALE A. GAEDERT History, Ph.D., Ohio State University, 1969; Associate Professor
ELVIRA E. GARCIA Foreign Languages and Literature, Ph.D., University of Nebraska-Lincoln, 1976; Professor
GEORGE R. GARRISON Black Studies, Ph.D., State University of New York at Buffalo, 1976; Professor
H. PERRIN GARSOMBE (GF) Accounting, Ph.D., University of California at Los Angeles, 1976; Professor
BRUCE M. GARVER (GF) History, Ph.D., Yale University, 1971; Professor
KENNETH GELUSO (GF) Biology, Ph.D., University of New Mexico, 1972; Associate Professor
LORRAINE M. GESSICK History, Ph.D., Cornell University, 1976; Assistant Professor
MARGARET GESSAMAN (GF) Mathematics and Computer Science, Ph.D., Montana State University, 1968; Professor
CHARLES RICHARD GILDER SleeVE Geography-Geology, Ph.D., University of Nebraska-Lincoln, 1978; Professor
DIANE GILLESPIE Social Work, Ph.D., University of Nebraska-Lincoln, 1982; Assistant Professor
MICHAEL L. GILLESPIE Philosophy and Religion, Ph.D., Southern Illinois University, 1974; Associate Professor
KENNETH J. GILREATH Special Education and Communication Disorders, M.S., University of Nebraska at Omaha, 1967; Assistant Professor
DONALD J. GRANDGENETT Teacher Education, Ed.D., Arizona State University, 1967; Professor
NEAL GRANDGENETT Teacher Education, Ph.D., Iowa State University, 1989; Assistant Professor
DONALD L. GREER (GF) Health, Physical Education and Recreation, Ph.D., University of Illinois, 1986; Associate Professor
RAYMOND A. GUENTHER (GF) Physics, Ph.D., Illinois Institute of Technology, 1989; Professor
JOHN C. HAFFER Marketing, Ph.D., University of Nebraska-Lincoln, 1979; Associate Professor
BEVERLY HARTUNG HAGEN Social Work, Ph.D., University of Nebraska-Lincoln, 1979; Professor
JAMES P. HAGEN (GF) Chemistry, Ph.D., University of Wisconsin-Madison, 1978; Associate Professor
NORMAN H. HAMM (GF) Psychology, Ph.D., Kent State University, 1968; Professor
SCOTT HARRINGTON Counselling, Ph.D., University of Colorado-Boulder, 1971; Associate Professor
WAYNE A. HARRISON (GF) Psychology, Ph.D., University of North Carolina, 1976; Associate Professor
GARY N. HARTZELL Educational Administration and Supervision, Ed.D., University of California at Los Angeles, 1990; Associate Professor
E. LAVERNE HASELWOOD Teacher Education, Ph.D., University of Nebraska-Lincoln, 1972; Professor
ROBERT M. HAUATA Health, Physical Education and Recreation, Ed.D., University of Northern Colorado, 1984; Associate Professor
DONALD F. HAYES Civil Engineering, Ph.D., Colorado State University, 1960; Assistant Professor
BARBARA A. HAYHOME (GF) Biology, Ph.D., University of Chicago, 1970; Professor
JACK HEIDEL (GF) Mathematics and Computer Science, Ph.D., University of Iowa, 1967; Associate Professor
SHELTON HENDRICKS (GF) Psychology, Ph.D., Tulane University, 1967; Professor
ELAINE HESS Sociology, Ph.D., University of Nebraska-Lincoln, 1970; Assistant Professor
JOHN W. HILL (GF) Special Education and Communication Disorders, Ph.D., The American University, 1974; Professor
PETER W. HILL (GF) Art, M.F.A., Cranbrook Academy of Art, 1958; Professor
DAVID HINTON Public Administration, Ph.D., University of Arkansas, 1972; Professor
ROGER F. HOBURG Chemistry, Ph.D., University of Nebraska-Lincoln, 1957; Associate Professor
DENNIS E. HOFFMAN Criminal Justice, Ph.D., Portland State University, 1979; Associate Professor
ROBERT FRED HOLBERT Criminal Justice, Ph.D., University of Nebraska-Lincoln, 1976; Associate Professor
ALEKSEY V. HOLLOWAY (GF) Physics, Ph.D., Moscow State University, 1979; Assistant Professor
ARTHUR HOMER Writer's Workshop, M.F.A., University of Montana, 1979; Associate Professor
BRUCE J. HORACEK Gerontology, Ph.D., University of Iowa, 1978; Professor
JULIE HORNEY (GF) Criminal Justice, Ph.D., University of California-San Diego, 1973; Professor
HELEN J. HOWELL (GF) Teacher Education, Ed.D., University of Colorado-Boulder, 1969; Professor
CHARLES O. INGHAM Biology, Ph.D., University of Utah, 1963; Associate Professor
HARL R. JARMIN Teacher Education, Ph.D., University of Missouri-Kansas City, 1960; Professor
BRUCE E. JOHANSEN (GF) Communication, Ph.D., University of Washington, 1979; Professor
G. VAUGHN JOHNSON Information Systems and Quantitative Analysis, D.B.A., Arizona State University, 1973; Associate Professor
JAMES B. JOHNSON Political Science, Ph.D., Northwestern University, 1972; Associate Professor
ANTHONY JUNG Foreign Languages and Literature, Ph.D., University of Illinois-Urbana, 1972; Professor
JACK C. KASHER (GF) Physics, Ph.D., Boston College, 1970; Professor
GARY B. KEEFER (GF) Civil Engineering, Ph.D., University of West Virginia, 1979; Associate Professor
ERNEST J. KEMNITZ JR. Chemistry, Ph.D., University of Nebraska-Lincoln, 1971; Associate Professor

DENNIS KENNEY Criminal Justice, Ph.D., Rutgers University, 1986; Associate Professor

KENT KIRWAN (GF) Political Science, Ph.D., University of Chicago, 1970; Professor

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

PATRICIA KOLASA Teacher Education, Ph.D., University of Kansas, 1975; Associate Professor

JOHN KONVALINA (GF) Mathematics and Computer Science, Ph.D., State University of New York at Buffalo, 1975; Professor

DALE KRANE (GF) Public Administration, Ph.D., University of Minnesota, 1973; Associate Professor

GARY L. KRAUSE Civil Engineering, Ph.D., University of Michigan, 1990; Assistant Professor

LENORE KUO Philosophy and Religion, Ph.D., University of Wisconsin, 1982; Associate Professor

JULIEN J. LAFONTANT (GF) Foreign Languages and Literature, Ph.D., State University of New York-Binghamton, 1976; Professor

MARY ANN LAMANNA (GF) Sociology and Anthropology, Ph.D., University of Notre Dame, 1977; Professor

JOHN T. LANGE Teacher Education, Ed.D., University of Nebraska-Lincoln, 1973; Associate Professor

FREDERIC LAQUER Chemistry, Ph.D., University of Missouri-Columbia, 1985; Associate Professor

RICHARD W. LATIN (GF) Health, Physical Education and Recreation, Ph.D., University of Utah, 1982; Associate Professor

JOSEPH C. LAVOIE (GF) Psychology, Ph.D., University of Wisconsin-Madison, 1970; Professor

BUN SONG LEE (GF) Economics, Ph.D., Southern Methodist University, 1973; Professor

DARRYLL H. HALCOMB LEWIS Law and Society, J.D., Creighton University, 1978; Assistant Professor

MARY JANE LICKTEIG Teacher Education, Ed.D., University of Oregon, 1972; Professor

DEANA C. LIDDY Psychology, Ph.D., University of Nebraska-Lincoln, 1971; Associate Professor

VINCENT J. LIOTTA (GF) Music, M.S., Indiana University, 1975; Professor

JEREMY LIPSCHULTZ (GF) Communication, Ph.D., Southern Illinois University, 1990; Assistant Professor

W. BOVO LITTRELL (GF) Sociology and Anthropology, Ph.D., New York University, 1974; Professor

YI-SHIN LIU (GF) Mathematics and Computer Science, Ph.D., University of Nebraska-Lincoln, 1986; Associate Professor

CAROL V. LLOYD Teacher Education, Ph.D., University of Arizona-Tucson, 1994; Assistant Professor

THOMAS C. LORSBACH (GF) Special Education and Communication Disorders, Ph.D., University of Missouri-Columbia, 1979; Professor

DAVID G. LOW (GF) Music, M.M., Northwestern University, 1973; Professor

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

VERA L. LUNDAH Health, Physical Education and Recreation, Ph.D., Texas Woman's University, 1963; Associate Professor

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

HARMON D. MAHER JR. (GF) Geography-Geology, Ph.D., University of Wisconsin-Madison, 1984; Associate Professor

THOMAS H. MAJESKI (GF) Art, M.F.A., University of Iowa, 1963; Professor

JOHN P. MALONEY Mathematics and Computer Science, Ph.D., Georgetown University, 1965; Professor

ERIC R. MANLEY Chemistry, Ph.D., University of New Mexico, 1976; Associate Professor

INEKE HAEN MARSHALL (GF) Criminal Justice, Ph.D., Bowling Green State University, 1977; Professor

THOMAS MARTIN (GF) Management, Ph.D., University of Iowa, 1977; Professor

ROBERT L. MATHIS (GF) Management, D.B.A., University of Colorado-Boulder, 1972; Professor

MICHAEL T. McGrath Social Work, Ed.D., University of Kentucky, 1964; Associate Professor

JACK McKay Educational Administration and Supervision, Ed.D., Washington State University, 1975; Associate Professor

JOHN J. McKENNA English, Ph.D., Ohio University, 1970; Professor

JEANETTE MEDOWITZ Finance and Banking, Ph.D., St. Louis University, 1987; Associate Professor

WAI-NING MEI (GF) Physics, Ph.D., State University of New York at Buffalo, 1979; Associate Professor

ORVILLE D. MENARD (GF) Political Science, Ph.D., University of Nebraska-Lincoln, 1964; Professor

KENNETH G. MERKEL Industrial Systems Technology, Ph.D., Fielding Institute, 1984; Professor

JOSEPHINE METCALF-CORBIN (GF) Health, Physical Education and Recreation M.Ed., University of Pittsburgh, 1970; Professor

C. RAYMOND MILLER (GF) Psychology, Ph.D., Oklahoma State University, 1968; Professor

LEO E. MISSINNE (GF) Gerontology, Ph.D., Lourain University, 1963; Professor

GRAHAM R. MITENKO Finance and Banking, D.B.A., Memphis State University, 1987; Assistant Professor

OWEN MORDAUNT English, Ph.D., Indiana University, 1981; Associate Professor

ROBERT A. MORTENSON Teacher Education, Ed.D., University of Missouri, 1970; Associate Professor

SUZANNE ELAINE MOSHER Biology, Ph.D., University of Chicago, 1972; Professor

MASSOUIM MOUSSAVI (GF) Civil Engineering, Ph.D., Virginia Polytechnic Institute and State University, 1984; Assistant Professor

R. CLARKE MULLEN Music, M.S., Juillard School of Music, 1959; Associate Professor

GORDON MUNDELL English, Ph.D., University of Rochester, 1973; Associate Professor

SUFI M. NAZEM (GF) Information Systems and Quantitative Analysis, Ph.D., Manchester University, 1970; Professor

OLEN A. NEWKIRK English, Ph.D., University of Denver, 1966; Professor

ANDREW NEWMAN Philosophy and Religion, Ph.D., University of London, 1964; Associate Professor

JON M. NEWTON (GF) Psychology, Ph.D., Ohio State University, 1955; Professor

DONALD A. NIELSEN Economics, Ph.D., Syracuse University, 1970; Professor

SUSAN NITTOURER (GF) Special Education and Communication Disorders, Ph.D., City University of New York, 1985; Associate Professor

CARL E. NORDAHL Biology, Ph.D., University of Iowa, 1969; Assistant Professor

BONNIE O'CONNELL Art, MA, University of Iowa, 1985; Assistant Professor

WILLIAM O'DELL (GF) Biology, Ph.D., Bowling Green State University, 1971; Professor

MICHAEL J. O'HARA Law and Society, Ph.D., University of Nebraska-Lincoln, 1983; J.D., University of Nebraska-Lincoln, 1978; Associate Professor

E. IMAFEDIA OKHAMAFO (GF) Philosophy and English, Ph.D., Purdue University, 1984; Associate Professor

B. GALE OLESON Counseling, Ph.D., University of Wyoming, 1963; Professor

RICHARD F. ORTMAN Accounting, Ph.D., University of Wisconsin-Madison, 1971; Associate Professor

ROBERT L. OTTEMANN (GF) Management, Ph.D., University of Nebraska-Lincoln, 1974; Associate Professor

RICHARD A. OVERFIELD History, Ph.D., University of Maryland, 1968; Professor

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

KAYE PARNELL Teacher Education, Ph.D., University of Wisconsin-Madison, 1973; Associate Professor

DOUGLAS L. PATTERSON (GF) Dramatic Arts, Ph.D., Cornell University, 1972; Professor
GRADUATE FACULTY

JEFFREY S. PEAKE Geography-Geology, Ph.D., Louisiana State University, 1977; Associate Professor
KERMIT C. PETERS Music, D.M.A., University of Arizona, 1976; Professor
MARVIN PETERSON English, Ph.D., University of Nebraska-Lincoln, 1979; Assistant Professor
MICHAEL PETERSON Geography-Geology, Ph.D., State University of New York-Buffalo, 1982; Associate Professor
THOMAS A. PETRIE (GF) Educational Administration and Supervision, Ph.D., Ohio State University, 1966; Professor
WILLIAM R. PETROWSKI (GF) History, Ph.D., University of Wisconsin-Madison, 1966; Professor
ROBERT C. PFaff Chemistry, Ph.D., University of Oklahoma, 1880; Associate Professor
GEORGE A. PFEFFER (GF) Chemistry, Ph.D., University of Illinois-Urbana, 1977; Professor
CYNTHIA LYNN PHANEUF Dramatic Arts, Ph.D., Texas Technological University, 1981; Associate Professor
LEAH PIETRON Information Systems and Quantitative Analysis, Ph.D., University of North Dakota, 1979; Associate Professor
ROSS A. PILKINGTON Counseling, Ed.D., University of Nebraska-Lincoln, 1971; Professor
LOUIS G. POL (GF) Marketing, Ph.D., Florida State University, 1978; Professor
OLIVER B. POLLAK (GF) History, Ph.D., University of California-Los Angeles, 1973; Professor
JANET B. PORTER Criminal Justice, J.D., University of Missouri at Kansas City, 1971; Ph.D., University of Oklahoma, 1966; Associate Professor
CHUCK POWELL (GF) Gerontology, Ph.D., University of Nebraska-Lincoln, 1986; Associate Professor
WILLIAM C. PRATT (GF) History, Ph.D., Emory University, 1968; Professor
WARREN F. PRINCE Music, D.M.A., Stanford University, 1968; Professor
MARTIN S. PRISCELL (GF) Communication, Ph.D., University of Nebraska-Lincoln, 1981; Associate Professor
DAVID M. RAABE English, Ph.D., University of Nebraska-Lincoln, 1975; Associate Professor
ARUNACHALAM RAVICHANDRAN Mathematics and Computer Science, Ph.D., Penn State University, 1989; Assistant Professor
BURTON J. REED (GF) Public Administration, Ph.D., University of Nebraska at Omaha, 1977; Professor
CHRISTINE M. REED Public Administration, Ph.D., Brown University, 1983; Associate Professor
HARRY W. REYNOLDS JR. (GF) Public Administration, Ph.D., University of Pennsylvania, 1954; Professor
RANALD A. ROSE Communication, Ph.D., Purdue University, 1989; Associate Professor
MARTIN ROSENBERG Art History, Ph.D., University of Pennsylvania, 1979; Associate Professor
MARK O. ROUSSEAU (GF) Sociology and Anthropology, Ph.D., University of North Carolina, 1971; Professor
ROBIN RUSSEL Social Work, Ph.D., University of Illinois, 1986; Associate Professor
GREGORY M. SADLEK (GF) English, Ph.D., Northern Illinois University, 1983; Associate Professor
HOSSEIN SAIEDIAN Mathematics and Computer Science, Ph.D., Kansas State University, 1999; Assistant Professor
JAMES R. SAKER Music, Ph.D., University of Iowa, 1982; Professor
DAVID C. SALMON Civil Engineering, Ph.D., Cornell University, 1967; Assistant Professor
LISA LEAHY SCHERER Psychology, Ph.D., Ohio State University, 1969; Assistant Professor
PHILIP E. SECRET (GF) Criminal Justice, Ph.D., University of Nebraska-Lincoln, 1976; Professor
JAMES W. SELEE Teacher Education, Ed.D., University of Colorado-Boulder, 1964; Professor
HENRY F. SERENCO Art, M.F.A., Alfred University, 1970; Associate Professor
ROGER S. SHARPE Biology, Ph.D., University of Nebraska-Lincoln, 1968; Associate Professor
MICHAEL D. SHERER (GF) Communication, Ph.D., University of Southern Illinois University, 1982; Professor
JOHN F. SHRODER JR. (GF) Geography-Geology, Ph.D., University of Utah, 1967; Professor
ROBERT D. SHUSTER Geography-Geology, Ph.D., University of Kansas, 1985; Assistant Professor
JEROLD L. SIMMONS (GF) History, Ph.D., University of Minnesota-Minneapolis, 1971; Professor
ROBERT B. SIMPSON Sociology and Anthropology, Ph.D., Washington University, 1970; Assistant Professor
ROGER P. SINDT Economics, Ph.D., Texas A & M College Station, 1972; Professor
MICHAEL SKAU (GF) English, Ph.D., University of Illinois (Urbana-Champaign), 1973; Professor
ANDRIS SKREIMA Sociology and Anthropology, Ph.D., University of Minnesota-Minneapolis, 1973; Associate Professor
KENNETH E. SMITH Teacher Education, Ed.D., Loyola University, 1979; Assistant Professor
PAMELA J. SMITH English, Ph.D., University of Washington, 1986; Associate Professor
PHILLIP CHARLES SMITH English, Ph.D., University of Nebraska-Lincoln, 1975; Associate Professor
H. KIM SOSIN (GF) Economics, Ph.D., University of Nebraska-Lincoln, 1976; Professor
GLENN A. SOWELL Physics, Ph.D., Florida State University, 1982; Assistant Professor
PAMELA SPECHT (GF) Management, Ph.D., University of Nebraska-Lincoln, 1981; Associate Professor
THOMAS H. SPENCER (GF) Mathematics and Computer Science, Ph.D., Stanford University, 1986; Associate Professor
CASSIA SPOHN (GF) Criminal Justice, University of Nebraska-Lincoln, 1978; Professor
SANDRA K. SQUIRES Special Education and Communication Disorders, Ed.D., University of Northern Colorado, 1972; Associate Professor
JACQUELINE ST JOHN History, Ph.D., University of Oklahoma, 1959; Professor
RICHARD D. STACY Health, Physical Education and Recreation, Ed.D., University of Virginia, 1986; Associate Professor
RICHARD H. STASIAK (GF) Biology, Ph.D., University of Minnesota-Minneapolis, 1972; Professor
LARRY J. STEPHENS Mathematics and Computer Science, Ph.D., Oklahoma State University, 1972; Professor
MICHAEL J. STEWART (GF) Health, Physical Education and Recreation, Ph.D., Ohio State University, 1977; Associate Professor
JUSTIN D. STOLEN (GF) Information Systems and Quantitative Analysis, Ph.D., University of Illinois-Urbana-Champaign, 1970; Professor
DALE A. STOVER Philosophy and Religion, Ph.D., McGill University, 1967; Professor
RANDALL STROPE (GF) Music, Ph.D., Arizona State University, 1968; Assistant Professor
DANIEL M. SULLIVAN Chemistry, Ph.D., University of Nebraska-Lincoln, 1972; Professor
DAVID M. SUTHERLAND (GF) Biology, Ph.D., University of Washington, 1967; Professor
PETER T. SUZUKI (GF) Public Administration, Ph.D., Leiden University, 1959; Professor
MAHER K. TADROS (GF) Civil Engineering, Ph.D., University of Calgary, 1975; Professor
WILLIAM TAPPREICH Biology, Ph.D., University of Montana, 1966; Assistant Professor
MICHAEL L. TATE (GF) History, Ph.D., University of Toledo, 1974; Professor
LYDIA KAY THIGPEN Health, Physical Education and Recreation, Ph.D., Texas A&M University, 1985; Assistant Professor
RICHARD S. THILL (GF) Foreign Languages and Literature, Ph.D., University of California-Los Angeles, 1973; Professor
JAMES M. THOMAS Psychology, Ph.D., Iowa State University, 1973; Associate Professor
GRADUATE FACULTY

RAYMOND A. ZIEBARTH Teacher Education, Ph.D., University of Minnesota-Minneapolis, 1963; Professor

GRADUATE FACULTY
(Joint Appointment with College of Medicine)
CAROL R. ANGLE (GF) Psychology, M.D., Cornell University Medical College, 1951; Professor

SUSAN EPPS (GF) Psychology, Ph.D., University of Minnesota, 1982; Assistant Professor

JOSEPH EVANS (GF) Psychology, Ph.D., University of Kansas, 1974; Associate Professor

BETTY G. FOSTER Gerontology, Ph.D., Kansas State University, 1951; Assistant Professor

J. MICHAEL LEIBOWITZ (GF) Psychology, Ph.D., University of Maryland, 1974; Associate Professor

JORGE F. RODRIGUEZ-SIERRA (GF) Psychology, Ph.D., Rutgers University, 1976; Associate Professor

GRADUATE FACULTY
(Boys Town)
DANIEL DALY Psychology, Ph.D., West Virginia University, 1973; Assistant Professor

PAUL S. ING Biology, Ph.D., Indiana University, 1975; Assistant Professor

WALT JESTEADT (GF) Psychology, Ph.D., University of Pittsburgh, 1971; Associate Professor

WILLIAM KIMBERLY (GF) Biology, Ph.D., Indiana University School of Medicine, 1987; Assistant Professor

KENNETH ROBERTS Psychology, Ph.D., University of Kansas, 1986; Assistant Professor

GRADUATE FACULTY
(Other locations)
GARY GARD Psychology, Ph.D., University of Nebraska-Lincoln, 1982; Assistant Professor

JOHN R. HARDY Physics, Ph.D., University of Bristol, England, 1958; Professor

LYNDA MADISON Psychology, Ph.D., Emory University, 1961; Assistant Professor

FRED STRIDER (GF) Psychology, Ph.D., University of Nebraska-Lincoln, 1961; Professor

TOMMY R. THOMPSON (GF) History, Ph.D., University of Maryland, 1972; Professor

JAMES A. THORSON (GF) Gerontology, Ed.D., University of Georgia, 1975; Professor

YVONNE TIXIER Y VIGIL Teacher Education, Ph.D., University of Oklahoma-Norman, 1979; Assistant Professor

GAYLORD H. TODD Foreign Languages and Literature, Ph.D., University of Minnesota-Minneapolis, 1970; Associate Professor

PAUL TODD M.M., University of Texas, 1956; Associate Professor

LARRY R. TRUSSELL (GF) Accounting, Ph.D., University of Arkansas, 1972; Professor

KEITH K. TURNER (GF) Economics, Ph.D., University of Nebraska-Lincoln, 1989; Professor

ANGELA MARIA VALLE Foreign Languages and Literature, Ph.D., Michigan State University, 1978; Professor

IVALYN J. VANEY Teacher Education, Ph.D., University of Nebraska-Lincoln, 1976; Associate Professor

PHILIP E. VOGEL Geography-Geology, Ph.D., University of Nebraska-Lincoln, 1966; Professor

WILLIAM O. WAKEFIELD Criminal Justice, Ph.D., South Dakota State University, 1976; Professor

SAMUEL E. WALKER (GF) Criminal Justice, Ph.D., Ohio State University, 1973; Professor

THOMAS D. WALSH English, Ph.D., University of Nebraska-Lincoln, 1973; Professor

JOHN W. WANZERED Communication, Ph.D., University of Nebraska-Lincoln, 1974; Professor

BLAINE E. WARD Educational Administration and Supervision, Ed.D., University of South Dakota, 1969; Associate Professor

SHIRLEY A. WASKEL (GF) Gerontology, Ph.D., University of Nebraska-Lincoln, 1976; Professor

Judith E. WATANABE Accounting, Ph.D., University of Nebraska-Lincoln, 1985; Associate Professor

VINCENT WEBB (GF) Criminal Justice, Ph.D., Iowa State University, 1972; Professor

THOMAS WEBER Biology, Ph.D., University of Wisconsin-Madison, 1970; Associate Professor

Del WEBER Educational Administration and Supervision, Ed.D., University of Nebraska-Lincoln, 1962; Professor

Gwen K. WEBER Social Work, Ph.D., University of Nebraska-Lincoln, 1979; Associate Professor

ROBERT W. WELK Dramatic Arts, M.A., Kent State University, 1962; Associate Professor

Jay WHITE (GF) Public Administration, Ph.D., George Washington University, 1982; Professor

RICHARD L. WIKOFF (GF) Psychology, Ph.D., Oklahoma State University, 1965; Professor

STANLEY WILEMAN Mathematics and Computer Science, M.S., University of Houston, 1972; Professor

DANIEL WILKINS (GF) Physics, Ph.D., Stanford University, 1972; Associate Professor

L. DUANE WILLARD Philosophy and Religion, M.S., University of Wisconsin-Madison, 1964; Associate Professor

MARK A. WILLIAMS Health, Physical Education and Recreation, Ph.D., Texas A&M University, 1980; Assistant Professor

MARY E. WILLIAMSON Communication, Ph.D., University of Missouri-Columbia, 1972; Associate Professor

MARK E. WOHAR (GF) Economics, Ph.D., University of Illinois, 1955; Associate Professor

JAMES K. WOOD Chemistry, Ph.D., Ohio State University, 1969; Professor

JAMES M. WOOD Special Education and Communication Disorders, Ph.D., University of Utah, 1966; Professor

JANE D. WOODY (GF) Social Work, M.S.W., Western Michigan State University, 1973; Ph.D., Michigan State University, 1970; Professor

ROBERT H. WOODY (GF) Psychology, J.D., Creighton University, 1991; Sc.D., University of Pittsburgh, 1975; Ph.D., Michigan State University, 1994; Professor

FRANK ZAHN (GF) Economics, Ph.D., University of California-Santa Barbara, 1969; Professor

QUIMING ZHU (GF) Mathematics and Computer Science, Ph.D., Rensselaer Polytechnic Institute, 1986; Associate Professor

GRADUATE FACULTY

WALTER JESTEADT (GF) Psychology, Ph.D., University of Pittsburgh, 1971; Associate Professor

WILLIAM KIMBERLY (GF) Biology, Ph.D., Indiana University School of Medicine, 1987; Assistant Professor

KENNETH ROBERTS Psychology, Ph.D., University of Kansas, 1986; Assistant Professor

GARY GARD Psychology, Ph.D., University of Nebraska-Lincoln, 1982; Assistant Professor

JOHN R. HARDY Physics, Ph.D., University of Bristol, England, 1958; Professor

LYNDA MADISON Psychology, Ph.D., Emory University, 1961; Assistant Professor

FRED STRIDER (GF) Psychology, Ph.D., University of Nebraska-Lincoln, 1961; Professor
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