Graduate Academic Catalog (1988-89)

University of Nebraska at Omaha
University of Nebraska at Omaha
Graduate Catalog
1988-89

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. 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) (402) 554-2341.

Margaret P. Gessaman, Ph.D.
Dean, Graduate Studies and Research

The Official Catalog of
The University of Nebraska at Omaha
Volume XLIV, Number 2
$1.00
# TABLE OF CONTENTS

**BASIC INFORMATION AND SUMMARIES**
- Graduate Degrees Offered .......................................................... 5
- Directory of Graduate Programs ................................................. 6
- Summary of Policies and Procedures in Graduate Studies ........... 7
- University Regulations .............................................................. 7
- Summary of Admission Procedures ............................................ 7
- Summary of Procedures for Graduate Students ........................... 9
- Graduation Checklist ............................................................... 9

**Academic Calendar** ................................................................. 10

**Administration of Graduate Studies at the University of Nebraska at Omaha** .......................... 11
- Board of Regents ...................................................................... 11
- Administrative Officers ......................................................... 12
- Administration of Graduate Studies ......................................... 12
- Organization of Graduate Studies ........................................... 12
- Faculty Scholarship ............................................................... 12
- Graduate Faculty ...................................................................... 12
- Graduate Faculty Members .................................................... 12
- Graduate Faculty Fellows ........................................................ 12
- Graduate Program Committees .............................................. 13
- Graduate Student Advisors .................................................... 13
- Supervisory Committees ....................................................... 13

**GENERAL INFORMATION: UNIVERSITY OF NEBRASKA AT OMAHA** .......................... 15
- General Appeal Procedures for Academic Matters Concerning Graduate Students ................ 35
- All Graduate Degrees ................................................................ 35
- All Graduate Courses Offered for Graduate Credit ....................... 35
- Change of Graduate Degree Program ....................................... 35
- Course Loads for Graduate Students ....................................... 35
- Courses Offered for Graduate Credit ...................................... 35
- Credit/No Credit Option for Courses Offered for Graduate Credit 35
- Dropping Courses .................................................................. 35
- Withdrawal from All Classes .................................................. 35
- Faculty Development Services .................................................. 36
- Career Placement Services ...................................................... 36
- Counseling Services .............................................................. 36
- Testing Center .......................................................................... 36
- Student Part-Time Employment Services ................................. 36
- Special Programs ...................................................................... 36
- Handicapped Services ............................................................. 36
- Learning Center ........................................................................ 36
- Minority Student Services ....................................................... 36
- Health Services ........................................................................ 36
- Student Health Insurance ....................................................... 36
- Women's Services ..................................................................... 36

**SPECIAL INFORMATION FOR GRADUATE STUDENTS** .................................................. 27
- To Unclassified (Non-Degree) Status ......................................... 28
- Special Permission to Register for Graduate Credit .................... 28
- Students at an Accredited Institution ........................................ 28
- Temporary Admission ............................................................. 28
- Graduates from Other University of Nebraska Campuses ........... 29
- Required Graduate Examination ....... ................................. 29
- Graduate Management Admission Test .................................. 29
- Miller Analogies Test .............................................................. 30
- Test of English as a Foreign Language ..................................... 30
- Readmission to Graduate Studies ............................................ 30
- Registration .............................................................................. 30
- Admission to candidacy for the Degree ................................. 30
- Eligibility ............................................................................... 30
- Procedures .............................................................................. 30
- Guidelines for Construction of a Plan of Study ......................... 30
- Thesis Option .......................................................... ........................... 30
- Thesis Equivalents .................................................................. 30
- Final Comprehensive Examinations ....................................... 30
- Final Comprehensive Examinations ....................................... 30
- Quality of Work Standards ..................................................... 30
- Transfer of Graduate Credit ................................................... 30
- Second Masters Degree .......................................................... 30
- Incompletes ............................................................................. 30
- Time Limit for Graduate Degrees ........................................... 30
- Other Policies ............................................................................ 30
- Auditing Courses Offered for Graduate Credit ......................... 30
- Change of Graduate Degree Program ..................................... 30
- Course Loads for Graduate Students ..................................... 30
- Courses Offered for Graduate Credit ..................................... 30
- Credit/No Credit Option for Courses Offered for Graduate Credit 30
- Dropping Courses .................................................................. 30
- Withdrawal from All Classes .................................................. 30
- General Appeal Procedures for Academic Matters Concerning Graduate Students ............ 30

**DEGREE/CERTIFICATE REQUIREMENTS AND COURSE DESCRIPTIONS**
- Biology ......................................................................................... 39
- Business Administration .......................................................... 42
- Civil Engineering ................................................................. 47
- Communication .................................................................... 47
- Counseling and Special Education ........................................ 47
- Criminal Justice ..................................................................... 50
- Dramatic Arts ........................................................................ 64
- Economics .............................................................................. 68
- Educational Administration and Supervision ......................... 72
- English ..................................................................................... 74
- Geography ............................................................................... 77
- Geology ................................................................................... 79
- Health, Physical Education and Recreation ............................. 81
- History ..................................................................................... 84
- Mathematics ........................................................................... 87
- Music ....................................................................................... 92
- Political Science ..................................................................... 95
- Professional Accounting ......................................................... 97
- Psychology .............................................................................. 99
- Public Administration/Urban Studies ..................................... 113
- Social Work ............................................................................ 116
- Sociology ................................................................................ 120
- Teacher Education ............................................................... 120

**NON-DEGREE AREAS AND COURSE DESCRIPTIONS**
- Art ............................................................................................. 127
- Chemistry ............................................................................... 127
- Engineering Mechanics .......................................................... 127
- Foreign Languages ................................................................ 127
- Home Economics ................................................................... 127
- Philosophy and Religion ........................................................ 128
- Physics .................................................................................... 128
- UNO GRADUATE FACULTY ..................................................... 136
- UNIVERSITY ADMINISTRATION ............................................ 143

**INDEX** ................................................................................... 145
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 (MA, MS)**
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 twenty-four 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 (MAT)**
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 (MBA)**
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 (MM)**
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 (MSW)**
This is a professional graduate degree designed to provide knowledge, values and skills enabling the practitioner to intervene in behalf of individuals, families, groups and societal systems.

**Specialist in Education (EdS)**
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—MA, MS
Business Administration—MBA
Civil Engineering—MS*
Communication—MA
Counseling and Special Education
Counseling and Guidance
Agency Counseling—MA, MS
College Student Personnel Services—MA, MS
Gerontology—MA, MS
School Counseling/Elementary Level—MA, MS
School Counseling/Secondary Level—MA, MS
Special Education
Mental Retardation—MA
Speech Pathology—MA, MS
Resource Teaching and Learning Disabilities—MS
Teaching the Emotionally Disturbed—MS
Teaching the Hearing Impaired—MS
Teaching the Mentally Retarded—MS
Criminal Justice—MA, MS
Dramatic Arts—MA
Economics—MA, MS
Educational Administration and Supervision
Elementary Administration—MS
Secondary Administration—MS
Educational Administration—EdS
English—MA
Geography—MA
Health, Physical Education and Recreation—MA, MS
History—MA
Mathematics—MA, MS, MAT
Music—MM
Political Science—MA, MS
Professional Accounting—Master of Professional Accounting
Psychology
Educational Psychology—MS
Industrial/Organizational Psychology—MS
Psychology—MA
School Psychology—EdS, 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—MS
Social Work—MSW
Sociology
Applied Sociology—MS
Sociology—MA
Teacher Education
Elementary Education—MA, MS
Secondary Education—MA, MS
Reading—MS
Urban Education—MS

Additional departments or areas have been authorized to offer courses for graduate credit, a minor or a graduate certificate as follows:

Art—Minor
Chemistry—Minor
Engineering Mechanics—Minor*
Foreign Languages
French—Minor
German—Minor
Spanish—Minor
Gerontology—Minor, Graduate Certificate
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 Psychology 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 and Measurement at the University of Nebraska-Lincoln. Application for admission to any of these programs must be made through the Office of Graduate Studies at 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 may also pursue graduate work as Unclassified students simply for the purpose of personal or professional advancement if admitted to graduate studies by a department/s. The 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's 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 indefinitely 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 reserves the right to (1) add or delete courses from its offerings, (2) change times or locations of courses or programs, (3) change academic calendars without notice, (4) cancel any course for insufficient registrations, or (5) 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.

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: (1) enroll in both semesters of each academic year with summer enrollment optional or (2) 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.

SUMMARY OF ADMISSION PROCEDURES

1. In order to receive graduate credit for 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 points listed below, international students and U.S. citizens whose language of nurture was not English must provide the Office of Admissions with letters of recommendation, statement of available financial support and evidence of ability to speak and write the English language (TOEFL).

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 all required fees and documentation to the Office of Admissions, being careful to observe all deadlines.
   - 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; 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. The applicant will be notified by mail when this is done.

5. The recommendation by the department/area Graduate Program Committee on admission of the 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 deficiencies, assignment of advisor, reason for denial (if appropriate), etc.

7. All applicants admitted to UNO are sent an official Certificate of Admission to graduate studies when files are complete and in order.

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

ADD THE FOLLOWING IF YOUR APPROVED PROGRAM INCLUDES A THESIS OR A FIELD PROJECT:

A THESIS OR A FIELD PROJECT:

- Obtain a copy of "Instructions for the Preparation of Thesis" from the Graduate Studies Office.

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

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

- Call the Graduate Studies Office 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 Graduate Studies Office promptly.

- The approved thesis or field project must be deposited in the Graduate Studies Office together with the proper number of copies at least 12 working days before graduation. The thesis binding fee must be paid in the Registrar's Office prior to depositing the thesis/field project.
Academic Calendar
Graduate Catalog of 1988-89

This calendar supersedes the calendar published in the Graduate Catalog of 1988-89 on page 10. The University reserves the right to make additional changes or modifications necessitated by emergency conditions.

First Semester, 1988-89

<table>
<thead>
<tr>
<th>Date</th>
<th>Event/Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1</td>
<td>Last day for submitting credentials for admission to Graduate Studies for First Semester, 1988-89.</td>
</tr>
<tr>
<td>July 4</td>
<td>Holiday. University closed.</td>
</tr>
<tr>
<td>Aug. 8-19</td>
<td>Orientation.</td>
</tr>
<tr>
<td>Aug. 20-25</td>
<td>Registration.</td>
</tr>
<tr>
<td>Aug. 26-29</td>
<td>First Semester begins at 7:00 a.m.; both day and evening classes.</td>
</tr>
<tr>
<td>Aug. 29</td>
<td>Day for filing applications for degrees to be conferred in December.</td>
</tr>
<tr>
<td>Aug. 29-30</td>
<td>Thanksgiving Vacation. No classes.</td>
</tr>
<tr>
<td>Sept. 2</td>
<td>Last day for filing credentials for admission to Graduate Studies for Second Semester, 1988-89.</td>
</tr>
<tr>
<td>Oct. 11</td>
<td>Last day for filing applications for degrees to be conferred in May.</td>
</tr>
<tr>
<td>Oct. 22</td>
<td>Last day for filing credentials for admission to Graduate Studies for the Fall Semester, 1988-89.</td>
</tr>
<tr>
<td>Dec. 23</td>
<td>Last day for submitting credentials for admission to Graduate Studies for Second Semester, 1988-89.</td>
</tr>
<tr>
<td>Dec. 23-24</td>
<td>Inter-Session.</td>
</tr>
<tr>
<td>Jan. 3-13</td>
<td>Special course offerings.</td>
</tr>
</tbody>
</table>
| Second Semester, 1988-89

<table>
<thead>
<tr>
<th>Date</th>
<th>Event/Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 9-13</td>
<td>Orientation.</td>
</tr>
<tr>
<td>Jan. 13-20</td>
<td>Registration.</td>
</tr>
<tr>
<td>Jan. 16</td>
<td>Last day for filing credentials for admission to Graduate Studies for the Fall Semester, 1988-89.</td>
</tr>
<tr>
<td>Feb. 24-26</td>
<td>Last day for filing applications for degrees to be conferred in May.</td>
</tr>
<tr>
<td>Apr. 6-10</td>
<td>Spring Vacation.</td>
</tr>
<tr>
<td>Apr. 13</td>
<td>Last day for filing credentials for admission to Graduate Studies for Second Semester, 1988-89.</td>
</tr>
<tr>
<td>Apr. 15</td>
<td>Summer Session, 1989</td>
</tr>
<tr>
<td>May 20-30</td>
<td>Final examinations.</td>
</tr>
<tr>
<td>May 15-30</td>
<td>Last day for filing applications for degrees to be conferred in August, 1989.</td>
</tr>
<tr>
<td>May 15-30</td>
<td>Commencement at 10:00 a.m.</td>
</tr>
<tr>
<td>May 15-30</td>
<td>Summer Session, 1989</td>
</tr>
<tr>
<td>June 1-8</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Fall Semester, 1988-89.</td>
</tr>
<tr>
<td>June 8-14</td>
<td>Last day for submitting credentials for admission to Graduate Studies for Second Summer Session, 1989.</td>
</tr>
<tr>
<td>June 12-14</td>
<td>Last day for filing applications for degrees to be conferred in May, 1989.</td>
</tr>
<tr>
<td>June 12-14</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Full Semester, 1988-89.</td>
</tr>
<tr>
<td>July 17</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Fall Semester, 1988-89.</td>
</tr>
<tr>
<td>July 17</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Full Semester, 1988-89.</td>
</tr>
<tr>
<td>July 18-19</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Full Semester, 1988-89.</td>
</tr>
</tbody>
</table>

ADMINISTRATION
UNIVERSITY OF NEBRASKA AT OMAHA

THE BOARD OF REGENTS

Donald C. Fricke, D.D.S.  Lincoln
Pat Hoekwy  UNMC Student Rep.
Kermit Hansen  Omaha (Vice Chair)
Joe Kerrigan  UNO Student Rep.

Richard B. Flynn, Ed.D.  Omaha (Chairman)
William Swanson  Corporate Secretary
Robert W. Rossman, Ph.D.  President
The University of Nebraska

ADMINISTRATION
Del D. Weber, Ed.D. Chancellor

Otto F. Bauer, Ph.D.  Vice Chancellor
Robert Kneefoot, M.D.  Business and Finance
Richard E. Hoover, Ph.D.  Intercollegiate Athletics
Richard M. Snowden, M.P.A.  Director, Campus Computing

John M. Newton, Ph.D.  Dean
Gary L. Carrico, M.B.A.  College of Public Affairs
College of Arts and Sciences
Karen Craig, Ph.D.  College of Business Administration

Stanley R. Liberty, Ph.D.  Dean
Richard B. Flynn, Ed.D.  College of Fine Arts
College of Engineering and Technology
Richard Trussell, Ph.D.  College of Business Administration

Larry R. Shrader, D.M.A.  Dean
Margaret P. Gensaman, Ph.D.  Dean
College of Law
College of Education

Alan S. Hachet, Ph.D.  Dean
Margaret Robinson  Graduate Studies and Research
College of Continuing Studies

Robert S. Runyon, M.L.S.  International Studies and Programs, UNO/UNMC
Director
Library
ADMINISTRATION OF GRADUATE STUDIES
The administrative Office of Graduate Studies on the UNO campus is located in Room 204 of the
Eppl ey 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 227 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 1500 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 president
of the Graduate Faculty and councils thereof. The legislative and academic authority of the
Graduate Faculty is vested in the Executive Graduate Council, comprising thirty Members elected by
the faculty of the Graduate College and five 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 at 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 Faculty of that campus, and advises the Executive Graduate
Council affecting students and programs on more than one campus. This Council consists of fifteen elected faculty members and three graduate student members. Specific responsibilities of the
Dean and of the UNO Graduate Council can be found in the “Organization of Graduate Studies: University of Nebraska at Omaha.”

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 creative activity,
and professional services are the common currency of scholars, the University 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 substantive 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 College.

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
or reappointment:
1. The nominee must hold the rank of Assistant Professor or above.
2. 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.
3. The nominee will as part of his or her regular duties be actively involved in graduate student research
and teach courses.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential 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 super-
visory 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 or reappointment as Graduate Faculty Fellows.
1. The nominee must be a Graduate Faculty Member or meet all criteria for Graduate Faculty Membership.
2. The nominee must have published research and scholarly work of quality, or have demonstrated
comparable creative achievement.
   a. 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 and
      the imprint of recognized scholarly publishing houses or journals. Publication must have
      resulted from the nominee's terminal degree as a sufficient contribution to the
      University community; the University of Nebraska at Omaha Graduate Council
      disapproves of a dissertation representing a subsatisfactory completion of
      the 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
      advising and supervisory committees for students working toward post-baccalaureate
      degrees—including both major and minor requirements, together with quality of
      graduate education, publish instructional materials, published professional reports, or
      evidence of funded research and development projects.
   b. 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 nominee indicates the manner in which
      the published version represents a substantial amount of scholarly work in addition to that
      required for the dissertation.
   c. In disciplines such as art, architecture, theatre, or music where publication is not the normal or
      singular product, the nominator must provide evidence of creative work accomplished by
      the nominee and the creative work must be of notable quality.
3. The nominator must indicate current involvement of the nominee in research and/or creative work.
4. 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.
   
5. 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 the planning faculty select the Graduate Program Committee consisting of 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 departments, the last two-thirds of the Committee must be Graduate Faculty Fellows.
Membership of the Graduate Program Committee is recommended by the departmental chairman or
other appropriate administrator for appointment by the Dean of the Graduate College, who has
designated 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” graduate
program includes courses, opportunities for individual research, advisement, and completion of
funded research and development projects. This includes continuing and interdisciplinary graduate
departmental graduate studies—including both major and minor requirements, together with quality of
graduate education, publish instructional materials, published professional reports, or
of funded research and development projects.

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 insuring that the student's work, including the plan of study, satisfies all
requirements of the program and the Graduate College. To assure accountability and maintenance of
the standards, policies and procedures of the Graduate College, all graduate advising and supervisory
committees for students working toward post-baccalaureate degrees—including both major and minor
requirements, together with quality of graduate education, publish instructional materials, published
professional reports, or evidence of funded research and development projects.

SUPERVISORY COMMITTEES
Some graduate programs require the establishment of a supervisory committee for each student. In
particular, each student under Option I (page 5) 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 working with the committee. The chairperson of the committee shall be considered the student's	headvisor. The Supervisory Committee must be on file in the Graduate Studies Office at least one semester before graduation.
GENERAL INFORMATION
UNIVERSITY OF NEBRASKA
AT OMAHA

GRADUATE STUDIES AT UNO: HISTORY AND PURPOSE

For more than seventy-five 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 degrees 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.

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:

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

To enable the student to attain these objectives, the Graduate Faculty provide graduate courses, workshops, institutes, seminars, practical, research and special problems courses, and the supervision of these 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 University of Nebraska at Omaha is fully 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 Council on Social Work Education, the Engineers Council for Professional Development, 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 (for undergraduate programs), the Accrediting Council on Education in Journalism and Mass Communication (for undergraduate programs), the American Chemical Society and the National Association of Schools of Public Affairs and Administration. 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 colleges and universities which are members of the North Central Association and by other regional accrediting agencies.

GENERAL POLICIES

Equal Opportunity/Affirmative Action

The Bylaws of the Board of Regents of the University of Nebraska state: “Admission to the University and the privileges of University students should not be denied to any person because of their age, sex, race, color, national origin or religious or political beliefs.”

The University of Nebraska at Omaha declares and reaffirms a policy of administering all of its educational programs and related supporting services and benefits in a manner which does not discriminate because of a student’s or prospective student’s race, color, creed or religion, sex, national origin, age, handicap or other characteristic which cannot be lawfully the basis for provision of such services. These programs, services and benefits include, but are not limited to, admission, class assign-
student volunteers, mentors, scholars, financial and employment assistance, counseling, educational assistance, and the members and benefits of the institution for all students.

Further, UNO commits itself to a program of affirmative action to encourage the application of minority, women and handicapped students. To identify and address the affirmative action programs and services of the institution for all students.

Pursuant to this policy statement, UNO will implement a continuing program of compliance with all federal, state, and local laws relating to equal opportunity and affirmative action. Specifically, the policies address the requirements of the Americans with Disabilities Act and the Civil Rights Act of 1964 as amended, Title IX of the Education Amendments of 1972 and Sections 503 and 504 of the Rehabilitation Act of 1973.

Title IX Coordinator: Title IX of the Education Amendments of 1972 is a law forbidding discrimination based on sex. If you have complaints concerning discrimination that is University-related, you should contact Dr. Joe Davis, Assistant Vice Chancellor for Student Development Services, 113 Eppler Administration Building, Dr. Richard Hoover, Vice Chancellor for Educational and Student Services, or the Title IX Coordinator. Dr. Hoover's office is located in 211 Eppler Administration Building, 564-2779.

Handicapped Students, Section 504: The University of Nebraska at Omaha adheres to the principle of equal opportunity and affirmative action. The University does not discriminate against the handicapped. If students feel that they have been discriminated against because of a handicapping condition they should contact the Assistant Vice Chancellor for Educational and Student Services, 113 Eppler Administration Building. Most University programs, services and activities are accessible to the handicapped. The University is willing, where possible, to make inaccessible programs, services and activities available to handicapped persons by reorganizing them or by other means. SPECIAL NOTE: UNO welcomes handicapped students. Section 504 of the Rehabilitation Act of 1973 does not allow us to make premeditated inquiries regarding handicapped conditions. However, if you are handicapped and wish to receive information concerning available services, please notify us following your admission to UNO.

Discrimination and Sexual Harassment

The University of Nebraska at Omaha reaffirms its desire to create an environment for all students and employees that is fair and respectful — an environment which is based on one's ability and performance. To that end, it is the policy of the University of Nebraska at Omaha to prohibit discrimination because of sex, age, color, disability, religion, sex or national origin, or any form of sexual harassment* shall not be condoned. Appropriate corrective action will be taken in those instances where this policy has been violated. This policy is in keeping with federal employment and educational opportunity guidelines. Any student or employee will be subject to disciplinary action for violation of this policy.

For information concerning this policy, students should contact the Assistant Vice Chancellor for Student Development Services, faculty should contact the Vice Chancellor for Academic Affairs and staff should contact the Activational Affirmative Officer, Personnel Office.

* 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 employment or academic standing.

Privacy of Student Records/Information

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. Also the institution must obtain the written consent of students before releasing identifiable information to third parties from records to other than a specific class or 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 Dr. Sharon Davis, 202 Eppler Administration Building.

Plagiarism

The prevention of plagiarism and the imposition of sanctions upon those who resort to plagiarism is necessary to maintain the integrity of academic standards and 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 at Omaha 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 thereof, at any major administrative unit of the University of Nebraska at Omaha 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 coursework, 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, a three-level building built in 1975 and located at the west end of the campus, offers many services to its users and contains materials and facilities for study and research. The collection includes approximately 574,000 volumes, over 1 million microform items and 7,000 pieces of audio visual material. The total number of serials subscribed to is over 5,000, including new formats from around the world. Back issues in bound volumes and in microform are maintained. As a part of the University’s overall research effort, the University Library collects all federal and Nebraska government documents. Nearly all of the Library’s collection is on open shelves and is arranged according to the Library of Congress classification system. After obtaining a Library Information Retrieval System (LIRS) identification number at the Circulation Desk, University of Nebraska at Omaha students, faculty and staff may check out library materials with University of Nebraska at Omaha LIRS card at any of the three University campuses. Community users may obtain a borrower’s card for a fee.

Study areas include table and chair and individual carrels. Photocopies are available on the first floor (lower level). Seminar rooms, when not in use by scheduled classes, may be used for group study. An extended hours study room is open during some of the hours when the main library is closed.

Qualified staff are available to aid students. Reference librarians answer questions at the Reference Desk, assist individual students and classes on the research and guides to classes on the use of the Library, and on the materials in specific subject areas. Assistant librarians are available to aid Library users with government documents. Libraries collect books which are current periodicals, reserve materials, audio, visual, and microform material and equipment. When needed material is not available in the University’s collection, the Interlibrary Loan can obtain it from other libraries for students and faculty. Handouts with information about the Library's collections and its many services are available on the main floor of the building.
A comprehensive undergraduate and graduate curriculum is offered by the University of Nebraska at Omaha, with the primary objective being the development of a student's critical thinking and problem-solving skills. The University's academic programs are designed to provide a solid foundation in various fields of study, preparing students for careers in a wide range of industries.

**University Campus Computing**

The Office of Campus Computing is responsible for managing all facets of academic and administrative computing on the University of Nebraska at Omaha campus. The Campus Computing staff consists of 17 full-time employees and 30 part-time student employees. Offices are located in 110 Eppley Administration Building, 554-2468.

Campus Computing offers a full range of automated data processing services to students, faculty, and staff. Continual upgrading of computing capabilities provides the University with modern up-to-date equipment and techniques. Interactive computing, computer graphics and computer-aided research are a part of everyday academic life. The computer as a tool is an integral part of virtually all fields of study, research, and administration.

The academic computing capability of the University's Campus Computing centers around two major systems: a Digital VAX 8550 mainframe computer with 65 megabytes of memory and three gigabytes of mass storage, and a PDP 11/44 used by the Math/Computer Science Department to teach operating systems design and management. Also available to students and faculty are two microcomputer labs—one equipped with Zenith IBM-compatible micros and the other with a mix of Zenith and Macintosh micros. These labs are primarily for classroom work; however, many students use them for independent research projects. There is a full array of software on the mainframe and microcomputers to satisfy the many and varied academic pursuits on campus. All computer access is provided at no cost to students and faculty.

Microcomputer labs are located in the basement of the College of Business Administration and on the first floor of the Durham Science Center. Mainframe computer terminals are located in five user rooms: the basements of the College of Business Administration and the Eppley Administration Building, on the first floor of the Durham Science Center and Arts and Sciences, in the Engineering Science Building, and the Peter Kiewit Conference Center. There are also 24 dial-up ports available for off-campus access to the mainframe computer. Consultants are on duty in the Durham Science Center and the College of Business Administration user rooms for student assistance.

**Funding for Graduate Student Research**

An essential part of every graduate program is learning to use the tools of research, both scholarly and professional. The University provides a variety of research opportunities for graduate students, including funding for research projects. Information on other sources of funding is available through the Office of Grants Development.

**Student Organizations**

A wide variety of student organizations makes it possible for students to find activities to fit their own interests and needs. The student government and various student organizations offer a wide range of leisure-time activities, including sports, cultural events, and social activities. The University provides a variety of resources to support student organizations, including funding opportunities and access to university facilities.

**TUITION, FEES, DEPOSITS AND REFUNDS**

The University reserves the right to change the amount of tuition or fees at any time, and to assess charges for laboratory fees, breakage, lost property, fines, penalties, parking, student union, or special services not listed in this schedule. Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students availing themselves of the delayed billing option must familiarize themselves with the due dates, as posted. 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 Office of Financial Aid in 103 Eppley Administration Building. Application for financial aid must 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 Office of the Registrar. Students waiting until final due date for payment of tuition and fees to register or add courses will be required to pay the late registration fee or change of program fee, whichever is applicable, and the late payment fee.

Regulation 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 prior semesters must be paid prior to registration for any financial obligation.

Graduate Admission Fee (Graduate College): Payable upon submission of application $25.00

<table>
<thead>
<tr>
<th>Tuition</th>
<th>Per Semester Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td></td>
</tr>
<tr>
<td>Resident</td>
<td>$42.75</td>
</tr>
<tr>
<td>Non-Resident</td>
<td></td>
</tr>
<tr>
<td>Per Student Credit Hour through Off-Campus Program</td>
<td></td>
</tr>
<tr>
<td>Undergraduate</td>
<td></td>
</tr>
<tr>
<td>Gradu ate</td>
<td></td>
</tr>
<tr>
<td>Resident</td>
<td></td>
</tr>
<tr>
<td>Non-Resident</td>
<td></td>
</tr>
<tr>
<td>Per Student Credit Hour through Off-Campus Program</td>
<td></td>
</tr>
</tbody>
</table>

**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 room space after credit registration ends. Students who register for an auditing 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 charged for:

<table>
<thead>
<tr>
<th>Course Section</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1020 Laboratory Fee</td>
<td>$5.00</td>
</tr>
<tr>
<td>Biology Laboratory Fee</td>
<td>$7.00</td>
</tr>
<tr>
<td>Ceramics Laboratory Fee</td>
<td>$5.00</td>
</tr>
<tr>
<td>Chemistry Laboratory Fee</td>
<td>$5.00</td>
</tr>
<tr>
<td>Communication 3110, Photography Laboratory Fee</td>
<td>$15.00</td>
</tr>
<tr>
<td>Engineering Technology Laboratory Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>EET 1040, 1090, 2090, 2450, 4660</td>
<td></td>
</tr>
<tr>
<td>EMEC 1110, 1120, CET 2000, 2020</td>
<td></td>
</tr>
<tr>
<td>DDEE 1290, 1290, 1290, IST 3250</td>
<td></td>
</tr>
<tr>
<td>IST 2160</td>
<td>$17.00</td>
</tr>
<tr>
<td>IST 2110</td>
<td>$18.00</td>
</tr>
<tr>
<td>IST 1830</td>
<td>$13.00</td>
</tr>
<tr>
<td>CET 2200, IST 1160, 1160, GET 2130</td>
<td></td>
</tr>
<tr>
<td>IST 5005</td>
<td>$20.00</td>
</tr>
<tr>
<td>English 1000-1100 Laboratory Fee</td>
<td>$1.50</td>
</tr>
<tr>
<td>English Department Reading Laboratory Fee</td>
<td>$5.00</td>
</tr>
<tr>
<td>Foreign Languages All 1000- and 2000-level courses</td>
<td>$6.25</td>
</tr>
<tr>
<td>Foreign Languages All 2050 Courses</td>
<td>$25.00</td>
</tr>
<tr>
<td>Geography 1030, 1030, 1030, 1030</td>
<td>$5.00</td>
</tr>
<tr>
<td>Geography 1030 Field Trip</td>
<td>$3.00</td>
</tr>
<tr>
<td>Geology 1170, 1170, 3104, 3450 Laboratory Fee</td>
<td></td>
</tr>
<tr>
<td>Instructional Technology Core 2500</td>
<td>$3.00</td>
</tr>
<tr>
<td>Listening Fee</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

**Music**

Music Equipment and Maintenance Fee $15.00

Applied Music: Mandated $15.00

**Additional Fees**

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 offered. 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)-Undergraduate or Graduate

All students, undergraduate or graduate, (full or part time) per semester $49.00

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 Special Service Fees:

Student Photo 1.00 Fee:

The 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.

Nebraska State Student Association (NSSA) Fee:

NSSA Fee (Fall- or Part-time) per semester $5.00

The NSSA fee receipts are for membership of UNO students who belong to the Nebraska State Student Association. The continuation of the fee is reconsidered each year. This fee is assessed to every student and is refundable each Fall and Spring semester.

Student Photo I.D. Fee:

All students, undergraduate or graduate, full- or part-time, per semester $1.00

Special Service Fees:

- Transcript of Academic Record—First copy $3.00
- Additional copies—Same order $1.00
- Thesis Binding—copy $7.50
- Change of Program Fee (per each class changed) $5.00
- Cap and Gown Rental (to be arranged through the Bookstore) $15.00
- 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 fee will be assessed in addition to the returned check fee. If a check which was issued either for payment of 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 ten 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:

- Registration and Credential Fee
  - New Registrants (first year) $38.00
  - Fee covers establishment of permanent placement file, ten sets of credentials and the weekly Vacancy Bulletin may be obtained in the Office.
  - Alumni Re-Registrants (yearly fee) $45.00
  - Fee covers update of placement credentials information, addition of new recommendations, ten sets of credentials and the Vacancy Bulletin if picked up in the Office.

Optional Services

- Vacancy Bulletins Mailing Fee $15.00
  - 3rd class mailing
- Bulletin may be mailed to your home address. Bulletin is published bi-weekly from October through December; weekly from January through August.
- Extra Credential Fee (over initial ten sets) $2.50

Late Fees and Penalties

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

Deposits:

- Key (per key with authorization/refundable) $2.00
- ROTC Uniform Deposit Refundable $15.00

Refund Schedule (Tuition):

Tuition refunds are computed from the date application is received by the Registrar, NOT from the date of withdrawal from classes. Students paying tuition and fees on a deferred payment basis or under any other loan granted by the University, who withdraw before the account is paid in full are not relieved from payment of the balance due. Refunds will first be applied to unpaid balances, and any remaining balance must be paid. Failure to do so may 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.

Regular Semester

<table>
<thead>
<tr>
<th>Chargeable</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st week of classes</td>
<td>100%</td>
</tr>
<tr>
<td>2nd week of classes</td>
<td>75%</td>
</tr>
<tr>
<td>3rd week of classes</td>
<td>25%</td>
</tr>
<tr>
<td>4th week of classes</td>
<td>0%</td>
</tr>
<tr>
<td>5th week of classes</td>
<td>0%</td>
</tr>
<tr>
<td>Summer Sessions (5 and 6 Week)</td>
<td></td>
</tr>
<tr>
<td>1st session of week</td>
<td>100%</td>
</tr>
<tr>
<td>2nd session of week</td>
<td>75%</td>
</tr>
<tr>
<td>3rd session of week</td>
<td>25%</td>
</tr>
<tr>
<td>Summer Evening and Special Contract (7 and 8 Week)</td>
<td></td>
</tr>
<tr>
<td>1st session of week</td>
<td>100%</td>
</tr>
<tr>
<td>2nd session of week</td>
<td>75%</td>
</tr>
<tr>
<td>3rd session of week</td>
<td>25%</td>
</tr>
<tr>
<td>4th session of week</td>
<td>0%</td>
</tr>
<tr>
<td>Non-Credit and Special Courses (10 Weeks or More)</td>
<td></td>
</tr>
<tr>
<td>1st session of week</td>
<td>100%</td>
</tr>
<tr>
<td>2nd session of week</td>
<td>75%</td>
</tr>
<tr>
<td>3rd session of week</td>
<td>25%</td>
</tr>
<tr>
<td>4th session of week</td>
<td>0%</td>
</tr>
</tbody>
</table>

 Locker Deposit—Refundable $7.50

HPER Building lockers, lock and towel service are available to students and Campus Recreation Activity Card holders (Faculty/Staff). To renew the locker for the next semester or retrieve a personal article, 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:

- Credit by Examination, College-Level Examination Program (CLEP) $30.00
- Credit by Examination (departmental) $25.00
- Correspondence Tests, Miller Analogies Test (MAT) $10.00
- Graduate Management Admission Test (GMAT) $25.00
- Graduate Record Examination (GRE) $29.00
- Law School Admission Test (LSAT) $30.00
- Test of English as a Foreign Language (TOEFL) $72.00

**$25.00 testing fee will be applied to the tuition cost.**

***Additional fee for LSDAS***

**Plus 50 percent of resident tuition for earned credit.**

**Plus 50 percent of tuition for credit earned.**

**$25.00 testing fee will be applied to the tuition cost.**

$25.00 testing fee will be applied to the tuition cost.
TRAVELING SCHOLAR PROGRAM

As a member of the Mid-America State Universities Association, the University of Nebraska at Omaha participates in the MASUA Traveling Scholar Program. Universities cooperating include Iowa State University, University of Kansas, Kansas State University, University of Nebraska, University of Oklahoma and Oklahoma State University. The MASUA Traveling Scholar Program is designed to provide breadth and depth in the opportunities for graduate study offered at MASUA universities by permitting advanced graduate students to study at another MASUA university where they may utilize unique facilities or specializations.

Graduate students interested in participating in the program are eligible to participate in this program for up to two semesters or three quarters. The student’s major advisor initiates the proposal for the student’s participation by contacting the professor at another MASUA university where the student wishes to study. The Graduate Dean at each MASUA university involved must concur in the proposed participation.

During the time of participation, the student registers for research or special topics credit for the appropriate number of hours and pays fees at the home university. Additional information concerning the MASUA Traveling Scholar Program is available in the Office of Graduate Studies.

INTERSTATE RECIPROCITY AGREEMENT FOR GRADUATE EDUCATION

Under an agreement between the Board of Regents of the University of Nebraska and the Board of Visitors 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 academic 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 on academic work without commitments to teaching, research or laboratory supervision. Information about criteria, nomination procedures and selection procedures are available at the Graduate Studies Office, Eppley Building, Room 204.

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 twelve hours of graduate credit per semester. Most Graduate Assistantships are also eligible for an hourly pay differential during the summer session. Graduate Assistantships may for a Graduate Assistant tuition waiver for undergraduate-level coursework that is required to meet a deficiency identified in the graduate program. The Graduate Assistantship’s application for admission and the basis for provisional admission to the graduate program in the Assistantship’s respective department/area. The application must be recommended for approval by 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 waiver is awarded to half-time assistantships.

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

Policy Governing Graduate Assistantships

I. 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 Assistantships must be available to students who are in their final year of their programs. Successful completion of a degree program is a primary requirement for the Graduate Assistantship.

II. Recruitment and Selection of Graduate Assistantships

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 student and class performance. The student is reminded that, whether or not outside work commitments are involved, graduate assistantships may only be held if either graduate classwork or graduate assistant duties are not carried out in a satisfactory manner.

III. Work Load

The student load for a Graduate Assistant should average twenty hours per week for the duration of the appointment and shall be the equivalent of .50 FTE. The department in which the Graduate Assistant is employed should make arrangements with its Assistant 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.

IV. Course Load

Graduate Assistants are expected to carry a minimum of six graduate hours per semester. However, two courses of five-week summer sessions shall be equivalent to one semester. Graduate Assistants may not register for more than twelve 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.

V. 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 program committee of each department should establish the specific requirements for each Graduate Assistantship for each student it awards.

A Teaching assistants should average twenty hours per week for the duration of the appointment.

B. Duties involved in teaching, research or laboratory supervision designed to provide breadth and depth in the opportunities for graduate study offered at MASUA.

VII. Justification of New Assistantships

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 student and class performance. The student is reminded that, whether or not outside work commitments are involved, graduate assistantships may only be held if either graduate classwork or graduate assistant duties are not carried out in a satisfactory manner.

VIII. Justification of New Assistantships

In order to obtain permission to create new Assistantships, whether funded by state appropriations or outside grants, a brief statement of justification should be submitted for approval of the cognizant Graduate Dean and the Dean for Graduate Studies and Research prior to being sent to the Vice Chancellor for Academic Affairs. This statement should contain: (1) qualifications necessary or education for the position; (2) expected duties; (3) relevance of the duties to the student’s graduate training; and (4) justification for the Assistantship (as opposed to other job titles).

IX. Dismissal and Retention 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 will normally 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 for a limited number of graduate students who have been admitted to a graduate degree program. Eligibility is based on academic qualifications and financial need. Awards are made on a competitive basis. Financial information and application forms are available from the Office of Graduate Studies, Room 204, Eppley Administration Building.

Scholarships
Phi Delta Gamma, a national sorority for women, annually offers three scholarships of $250 each to women graduate students who have completed six graduate hours and have filed for candidacy. The application deadline is March 31 and application forms are available in the Office of Graduate Studies.
The Gerontology Program offers scholarships of $100 to $500 each to graduate and undergraduate students specializing in Gerontology. Awards are based on financial need, scholarship and commitment to the field of aging. Further information and application forms may be obtained from the Gerontology Program, Room 336, Eppley Administration Building.
Other scholarships are available and information may be obtained from the Office of Financial Aid or the Office of Graduate Studies.

Loans
Graduate students are eligible to apply for Perkins Student Loan, Guaranteed Student Loan (GSL) and Supplemental Loans for Students (SSL) programs. Perkins and GSL awards are based on need. Eligibility for these programs can be determined from financial aid information collected from the Financial Aid Form (FAF) which should be filed by the March 1 application priority deadline each year. The SSL program is not based on need and may be used in conjunction with GSL or other institutional aid. To apply for these loans as well as loans from other sources contact the Office of Financial Aid.

Work Study
Graduate students may be considered for College Work-Study positions. Eligibility for these employment positions is based upon information collected from the Financial Aid Form (FAF), which should be filed by the March 1 application priority deadline each year.

STUDENT DEVELOPMENT SERVICES
Career Placement Services
Career Placement Services assists students and alumni from all colleges of the University in their search for career employment.
Career Counselors aid in assessing student career goals and related employment opportunities. Guidance is given on local and national careers, employment fields, job descriptions, career trends and job-search techniques are also available.
All students who are completing degrees are encouraged to register with Career Placement Services by completing a placement file, including a resume and the Data Form.
Terminations or relocations are prepared and permanently maintained for candidates completing requirements for certification. A complete listing of local and regional teacher vacancies is available to all teacher candidates.
Career Placement Services offers two basic programs:
Campus Recruiting: Each semester local and national employers seeking December, May and August graduates visit the campus to conduct interviews with candidates registered with the office. Interviewing facilities are provided.
Candidate Referral: Throughout the year, local and regional employers contact our office seeking potential employment possibilities. Career Placement refers qualified candidates directly into interview and assists in arranging candidate interviews.
Career Placement Services sponsors programs covering numerous career employment topics. Programs include groups, seminars or individual sessions. 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 items.
An effort is made to obtain positions for all registered candidates; however, employment cannot be guaranteed.

Counseling Services
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. Students use the Counseling Center to resolve conflicts, improve their effectiveness and decision-making, and to gain understanding.
Current listings of available jobs are posted on bulletin boards near the Student Government Office in the Milo Bissell Student Center and in 111 Eppley Administration Building.

Students are referred directly to employers for job interviewing. All services are free.

**Special Programs**

The Office of Special Programs is the coordinating arm of several service units which assist UNO students with their special needs. The units include the Learning Center, Health Services, Handicapped Student Services, Minority Student Services and Women's Services. The Office of Special Programs is located in 117 Eppley Administration Building.

**Handicapped Services:** This service provides counseling to handicapped students as well as a forum to discuss and initiate needed services for the students. In compliance with the Rehabilitation Act of 1973 (Section 504) a handicapped 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. Students may initiate requests for transfer of course sections or room assignment in the Office of the Registrar. Interpreter Services for the deaf are available to qualified applicants; for more information, contact the Office of Special Programs.

**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, supplemental review sessions, and computer assisted instruction. Make certain to contact the Center to see when the activities you need to participate in are being held. The Center is located in 117 Eppley Administration Building.

**Minority Student Services:** Minority Student Services is a program unit which is a referral agent for persons seeking information and services at UNO. The office disseminates information necessary in the coordination of activities involved with the multi-ethnic student population as well as those special interest areas which are organized on campus to serve them. Minority student services is also instrumental in providing cultural and academic programming for minority students at UNO. The service is located in 117 Eppley Administration Building.

**Health Services:** Located in 132 Milo Bissell Student Center, the Health Services is available to all students and provides free first aid treatment for minor illnesses and emergency accidents with referral when necessary. Preventive health measures are a primary concern and include blood pressure checks, vision tests, those aware of skin cultures for possible staph infection, and scheduled clinics and programs on selected topics of interest. Health services open Monday through Friday from 8 a.m. to 5 p.m. A physician is available to students for free consultation, diagnosis, treatment and follow-up care.

Application for temporary or permanent handicapped parking permits must be made through Health Services.

**Student Health Insurance:** All UNO students carrying 6 or more hours have the option of enrolling in student health insurance through a group plan made available by the University with a physician. Student health insurance is available from the Health Center. Coverage for injury and sickness not due to University negligence is available to students for free consultation, diagnosis, treatment and follow-up care.

**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 7. 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 received an official Certificate of Admission to graduate programs at UNO, must have been admitted to graduate studies at another college or university 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 and is confirmed by the issuance of a Certificate of Admission. 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 for First Summer Session; April 1 for Spring Semester; December 1 for Second Summer Session; June 1 for Fall Semester

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 and Guidance programs are admitted only twice each year and applicants must submit all requirements for admission by May 1 for either Summer Session and for the Fall Session and by December 1 for the Spring Semester.

**Special Procedures for International Students**

In order to be considered for admission to graduate studies at UNO, a student whose language of instruction was English must submit evidence of a TOEFL score of 550 or more and at least one of the following:

1. A recommendation acceptable to the Office of Admissions from an English language program. The recommendation must address the question of whether the student is prepared for graduate-level work with English as the language of instruction.
2. Attendance for at least two years and graduation from an accredited institution of higher education in which the language of instruction was English.

Students scoring below 500 on the TOEFL must take the Department of English ESL placement Exam before registering for classes. Students whose English language skill is deficient will be required to take undergraduate English courses as determined by the Department of English until the deficiency has been corrected.

International students must also contact the Admission Office concerning the filing of the required financial statements.

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

Students who are permanent residents or United States citizens and whose language of instruction is not English must also fulfill the above requirements.
Categories of Admission to Graduate Studies

I. To a Degree Program
  A. Unconditional Admission
     Unconditional admission to graduate studies may be granted to an applicant who satisfies all
     the following conditions:
     1. Has earned a baccalaureate degree from a regionally accredited institution;
     2. Has earned at least a "B" average in the undergraduate work in the proposed graduate major
        and minor (if applicable);
     3. Has earned at least fifteen semester hours of undergraduate work that meet specific require-
        ments of the departments in the proposed major and minor (if applicable);
     4. Has submitted appropriate scores on the required aptitude or advanced knowledge tests to
        the Office of Graduate Studies.

B. Provisional Admission
     Provisional admission to graduate studies 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
     a "C" average). This admission may be granted for reasons of mature experience or other circum-
     stances 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 twelve 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 twelve hours
     of 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 study and, if admitted, they should register as graduate students. Seniors
     are allowed to enroll only in courses designated 8-5 or 8-6. Graduate course work taken prior to
     receipt of the baccalaureate degree may not 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
     scores 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.

II. To Unclassified (Non-Degree) Status

     Unclassified admission is available in some departments/areas for students who:
     1. Are taking courses for professional growth or personal interest, but do not intend to pursue
        an advanced degree;
     2. Are enrolled in a graduate degree program at another institution and wish to transfer credits
        earned at that institution.
     3. Are working toward certification, additional endorsement, or renewal of certification in profes-
        sional 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 status.

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

     PLEASE NOTE: Successful completion of graduate courses as an Unclassified student does not
     oblige 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 of Status form with the Office of Graduate Studies. If admission to a graduate program is
     sought and granted, and the applicant petitions for the inclusion of graduate credit earned while holding
     Unclassified status, that 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 in the Unclassified
     status are to be counted toward the degree.

Special Permission to Register for Graduate Credit

I. 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 twelve hours of graduate
credit for course work taken at any campus of the University of Nebraska in addition to the twelve
hours necessary to complete their undergraduate work, provided that such credits are earned within
the twelve 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. Senior's 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.

II. Temporary Admission
     When unusual 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 withdraws from all graduate courses and is readmitted within the time period specified.

     A student with Temporary Admission may register for graduate credit, subject to their receiving
     their baccalaureate degree within twelve months prior to receipt of the baccalaureate degree.

     Provisional admission will not be removed until the student has earned at least the grade of "B" in
     each course involved in the first twelve hours of graduate study. An applicant who has less than a
     "B" average in the undergraduate work in the proposed graduate major and minor (but in no case
     a "C" average). This admission may be granted for reasons of mature experience or other circum-
     stances 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 twelve hours of graduate study. A grade of "C" or below in any
     of these courses will result in automatic dismissal.

     In the development of an appropriate plan of study for each student admitted to a degree program
     the UNO Graduate Faculty recognize the following tests, subject to department/area
     requirements:

     1. General Aptitude Tests:
        a. Graduate Record Examination (GRE)
        b. Miller Analogies Test (MAT)
     2. Advanced Knowledge Tests:
        a. ACT, Mathematics Test
        b. PSAE, Mathematics Test

     Applicants who have not submitted the required test scores must provide evidence of an applicant's
     potential to perform at the graduate level. This may be done by submitting test scores as part of
     the application or by submitting additional documentation of an applicant's academic performance.

     The GRE, GMAT and MAT are administered at many sites throughout the nation and the world. At
     present, GRE, GMAT and MAT scores are available from the Testing Service. Information on
     scores be sent to the Office of Graduate Studies; applicants for graduate admission must submit
     their scores in 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 to a degree program is contingent upon approval of the cognizant Graduate Program
     Committee. Some departments/areas require that the scores on all designated tests be submitted
     with the application. The student should consult the appropriate degree description section in
     this Graduate Catalog and contact the department/area about such requirements. Even when the scores
     are not required for the admission process, the UNO Graduate Faculty require that every student
     admitted to a degree program must satisfactorily pass the above stated (and all designated) test(s) in
     the semester prior to receipt of the baccalaureate degree. The GRE, GMAT and MAT are administered
     at many sites throughout the nation and the world. At present, GRE, GMAT and MAT scores are
     available from the Testing Service. Information on testing dates are available from the Testing
     Service or from the Office of Graduate Studies. A fee is charged and advanced registration may be
     necessary. Students should request the scores be sent to the Office of Graduate Studies; applicants
     for the M.A. in Education or the M.S. in Professional Accounting programs should also request that
     the scores be sent to the College of Business Administration or to the Accounting
     Program, respectively.

Graduate Record Examination

Unconditional otherwise specified, all students are required to submit scores on the general aptitude portions
of the Graduate Record Examination. The advanced area test is also required in some departments/area;
students should contact their department/area for information.
Graduate Management Admission Test

Applicants for admission to the Master of Business Administration or to the Master of Professional Accounting programs are required to take the Graduate Management Admission Test, in lieu of the Graduate Record Examination, prior to admission. Some other departments/areas accept the GMAT in lieu of the general aptitude portions of the GRE.

Miller Analogies Test

With department/area approval, graduate students in a number of programs may take the Miller Analogies Test in lieu of the Graduate Record Examination general aptitude portions. Applicants for admission into graduate programs in Counseling and Special Education must take the NAT prior to admission.

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 study before registering for classes. Students in Business, Communication, 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 be 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 “Graduate Class Schedule” which is available at the Office of the Registrar.

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 obtain an application for admission to candidacy for the degree as soon as they are eligible to do so. 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). The following general guidelines should aid students and advisers to construct a plan of study.

1. At least one-half the hours of non-thesis course work on a plan of study should be in courses which are regarded to be graduate work only (B or 9 or higher). Education (of 20, 8170 and 8180 may not be used on a plan of study.

2. 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 twenty-four semester hours of non-thesis course work.

3. Up to 1/2 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.

4. A SBA courses 810, 8170 and 8180 may not be used on a plan of study.

5. See the section entitled, “Transfer of Graduate Credit”.

6. Each plan should contain suitable alternatives in case certain courses cannot be included in the program.

7. If there are any irregularities (such as a late filing of the application, 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.

Changes in the approved plan can be made after the admission to candidacy has been approved, as long as the student and the adviser agree. Requests for such changes must be made on the form available from the Office of Graduate Studies.

THESIS OPTION

A thesis provides an opportunity for the student to obtain firsthand 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 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 planning 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 the Graduate Catalog. The supervisory committee should be appointed by the student 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 and Ed.S. Field Projects," a copy of which can be obtained in the Office of Graduate Studies.

The student must defend the thesis in an oral examination before the supervisory committee. The students should obtain a copy of the Graduate Degree Completion Report from the Office of Graduate Studies to take to the oral examination. When the final approved form of the thesis is completed, the supervisory committee must sign each copy of the form and each copy of the acceptance page for the thesis.

5. Any "Incomplete" ("I") 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 registration 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.

6. All additional requirements of the department/area have been met.

Procedures

An application form for admission to candidacy for the degree can be 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.

1. At least one-half the hours of non-thesis course work on a plan of study should be in courses which are regarded to be graduate work only (B or 9 or higher).

2. 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 twenty-four semester hours of non-thesis course work.

3. Up to 1/2 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.

4. A SBA courses 810, 8170 and 8180 may not be used on a plan of study.

5. See the section entitled, “Transfer of Graduate Credit”.

6. Each plan should contain suitable alternatives in case certain courses cannot be included in the program.

7. If there are any irregularities (such as a late filing of the application, 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.

Changes in the approved plan can be made after the admission to candidacy has been approved, as long as the student and the adviser agree. Requests for such changes must be made on the form available from the Office of Graduate Studies.

THERAPY OPTION

A thesis provides an opportunity for the student to obtain firsthand 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 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 planning 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 the Graduate Catalog. The supervisory committee should be appointed by the student 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 and Ed.S. Field Projects," a copy of which can be obtained in the Office of Graduate Studies.

The student must defend the thesis in an oral examination before the supervisory committee. The students should obtain a copy of the Graduate Degree Completion Report from the Office of Graduate Studies to take to the oral examination. When the final approved form of the thesis is completed, the supervisory committee must sign each copy of the form and each copy of the acceptance page for the thesis.

5. Any "Incomplete" ("I") 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 registration 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.

6. All additional requirements of the department/area have been met.

Procedures

An application form for admission to candidacy for the degree can be 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.

1. At least one-half the hours of non-thesis course work on a plan of study should be in courses which are regarded to be graduate work only (B or 9 or higher).

2. 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 twenty-four semester hours of non-thesis course work.

3. Up to 1/2 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.

4. A SBA courses 810, 8170 and 8180 may not be used on a plan of study.

5. See the section entitled, “Transfer of Graduate Credit”.

6. Each plan should contain suitable alternatives in case certain courses cannot be included in the program.

7. If there are any irregularities (such as a late filing of the application, 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.

Changes in the approved plan can be made after the admission to candidacy has been approved, as long as the student and the adviser agree. Requests for such changes must be made on the form available from the Office of Graduate Studies.
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 advisor, or for others. The cost of binding all copies is to be held 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 twelve working days prior to the anticipated date of graduation.

Guidelines for Establishing Thesis Equivalent Projects

These-thesis projects should be the same calibrate 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 ensure that these projects are, as far as possible, equivalent to theses in scope, evaluation and process.

1. The work on the project should commence at least eight months prior to the expected date of graduation.
2. The project should be assigned a total of six hours of graduate credit on the approved plan of study.
3. The process for development and approval of the project must include all of the following:
   a. appointment of a supervisory committee;
   b. proposal to be approved by the supervisory committee;
   c. monitoring of the project by the supervisory committee;
   d. preliminary examination over the completed written product conducted by the supervisory committee;
   e. final approval by the supervisory committee.
4. The written product must satisfy the specifications to be found in the booklet, “Instruction for the Preparation of the Thesis and Ed.S. Field Project.”
5. 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.
6. The final grade on the project will be either “Satisfactory” or “Unsatisfactory.”

FINAL COMPREHENSIVE EXAMINATIONS

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

The comprehensive examinations should be taken near the conclusion of the student’s program 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 to be written. For those candidates writing a thesis, the final comprehensive examination may be oral or on the written aspect chosen by the student, but it should be scheduled at the time of the oral examination in the thesis. If the examination is oral, it will be arranged by the department/area Graduate Program Committee. The committee may arrange a two-day period for the examination, if deemed necessary. The examination must be arranged at a time convenient to the student and the committee.

If the student has a defined minor, the minor adviser may require that the student take a comprehensive examination in the minor field. If such a requirement 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 advisors 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 twelve 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 that 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.
SECOND MASTERS 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.

INCOMPETES

Removal

Instructors must indicate by a departmental record, with a copy to the student, 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 grade. In the event that the instructor is not available at the time of the student's application for removal of an "I", the student's advisor or department chairman 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 twelve working days before conferral of the degree. Forms to remove grades of "I" must 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" to specified courses; consult 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" was awarded unless approval is granted by the Dean for Graduate Studies and Research for an extension and the student records for the credit.

Accrual of Two or More Incompetes

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 EdD degree must be completed within six consecutive calendar years. The first day of class of the earliest course which appears in the last thirty-six semester hours of the student's plan of study is the beginning of the student's graduate education. Coursework which would be taken between six and ten years prior to completion of the degree program defined in the plan of study can be submitted for validation on an individual basis, provided that (1) the coursework would be one ten years old cannot be submitted for validation.

If students wish to use an outdated course (less than 10 years old) in a plan of study, they have the options available. However, it is the instructor's perogative to determine privileges, including examinations connected with the coursework. It is the student's responsibility to determine eligibility for the coursework. If the student has transferred coursework from another institution, it must be graded and re?°~

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 advisor and approval of the instructor of the course should be obtained prior to registration. It is the instructor's perogative to determine privileges, including examinations connected with the course.

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, in some programs special permission may be granted to take more than 12 credit hours during a five-week summer session, irrespective of whether or not the student holds a graduate assistantship.

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 can 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. Failure to withdraw according to this procedure may cause forfeiture of refunds and inappropriate posting of grades.

GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS CONCERNING GRADUATE STUDENTS

Appeal of General Academic Matters Related to Student Programs
A. Graduate students holding admission with undesignated 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) shall 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 departmental Graduate Program Committee administratively responsible for the student's graduate program.
3. If denied, the appeal may be submitted to the Graduate Council for the campus administratively responsible for the student's graduate program. Normally, this will be the first appeals body (for exceptions, see paragraph E).
B. Graduate students holding admission with a doctoral objective in the Graduate College and for whom a doctoral supervisory committee has been appointed shall appeal as follows:
1. Initially, the appeal should be submitted to the student's supervisory committee.
2. If denied, the appeal may be submitted to the departmental Graduate Program Committee administratively responsible for the student's graduate program.
3. If denied, the appeal may be submitted to the departmental 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 paragraph E).
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 of 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 thirty days after its completion. The initiation of the appeal, in writing, by the student must be filed within thirty days following the student's receipt of notification of the evaluation.
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 perpetuated 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 twenty 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 thirty 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 forty 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 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.
DEGREE/CERTIFICATE REQUIREMENTS AND COURSE DESCRIPTIONS

BIOLOGY

PROFESSORS: Bragg, deGraw, Egan, Lust, Sutherland

ASSOCIATE PROFESSORS: Fawcett, French, Geluso, Hayhome, Ingham, Moshier, O’Dell, Sharpe, Stasiak, T. Weber

ASSISTANT PROFESSORS: Anllinger, Engelmann, Nordahl

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 and advanced biology test) is required and the scores must be submitted before a student will be admitted to the program.

In addition to the application 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 coursework in biology to include 6 cr. hrs. of Thesis (8990), 1 cr. hr. of Graduate Seminar (8010), and at least 23 cr. hrs. of appropriate courses to be determined by the student and the faculty advisory committee. At least 8 of these 23 cr. hrs. will be taken at the 8000-level. 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 in biology, including cr. hr. of Graduate Seminar (8010), 2-6 cr. hrs. 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 cr. hrs. of the total 36 cr. hrs. required for the degree will be taken at the 8000-level. 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.

3230/8235 Microtechnique (3) A course in the techniques of fixation, dehydration, 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: Biology 1450 and 1750.

3530/8535 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: Biology 1450/1750.

3630/8635 Plant Anatomy (3) A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants. Prereq: Biology 1450/1750.

3730/8735 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: Biology 1750.

3740/8745 Histology (4) Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance. Prereq: Biology 1750, and a course in vertebrate anatomy, or permission of the instructor.
I:

and groups, mating systems, life history characteristics, and genetics. Experiments in Biology. Basic statistical methods including multivariate analysis. Statistical computer

instructor. Graduate standing.

Laboratory studies in genetics emphasizing experimental techniques and laboratory experience with a variety of organisms. Prereq: Biology 2140, or permission of

Experimental Genetics (3) Laboratory studies in genetics emphasizing experimental techniques and laboratory experience with a variety of organisms. Prereq: Biology 2140, or

Laboratory in Biology (2) A lecture/instructional laboratory in which the student will complete selected biocomputing projects. Prereq: Biology 3410/3415 or written permission of the

Microcomputers in Biology (2) A lecture/instructional laboratory in which the student will complete selected biocomputing projects. Prereq: Biology 3410/3415 or written permission of the

and reproduction. Prereq: Biology 1750 or equivalent, graduate standing in biology. Readings, discussions, laboratory, and a written report. Offered fall semester. Prereq: Biology 3340/3345 recommended. Prereq: Graduate standing and written permission of the instructor.

Advanced Topics in Biology (4) The study of the principles of development of multicellular organisms. Current concepts of interactions between the biochemical, cellular, and tissue levels will be discussed. Prereq: Biology 2140 and 3340 or 3345 or written permission of instructor. Prereq: Biology 1750, or permission of instructor.

Vascular Plant Morphology (4) A comprehensive study of the structure and function of plant and animal cells. Prereq: Biology 1750 and 2140, or written permission of the instructor.

Lichenology (4) A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in ecosystems. Prereq: Biology 1450, 1750, and 2140, or written permission of the instructor.

and reproduction. Prereq: Biology 1750 or equivalent, graduate standing in biology. Readings, discussions, laboratory, and a written report. Offered fall semester. Prereq: Biology 3340/3345 recommended. Prereq: Graduate standing and written permission of the instructor.

Advanced Topics in Biology (4) The study of the principles of development of multicellular organisms. Current concepts of interactions between the biochemical, cellular, and tissue levels will be discussed. Prereq: Biology 2140 and 3340 or 3345 or written permission of instructor. Prereq: Biology 1750, or permission of instructor.

Vascular Plant Morphology (4) A comprehensive study of the structure and function of plant and animal cells. Prereq: Biology 1750 and 2140, or written permission of the instructor. Prereq: Biology 1750, or permission of instructor.

Microcomputers in Biology (2) A lecture/instructional laboratory in which the student will complete selected biocomputing projects. Prereq: Biology 3410/3415 or written permission of the

and reproduction. Prereq: Biology 1750 or equivalent, graduate standing in biology. Readings, discussions, laboratory, and a written report. Offered fall semester. Prereq: Biology 3340/3345 recommended. Prereq: Graduate standing and written permission of the instructor.

Advanced Topics in Biology (4) The study of the principles of development of multicellular organisms. Current concepts of interactions between the biochemical, cellular, and tissue levels will be discussed. Prereq: Biology 2140 and 3340 or 3345 or written permission of instructor. Prereq: Biology 1750, or permission of instructor.

Vascular Plant Morphology (4) A comprehensive study of the structure and function of plant and animal cells. Prereq: Biology 1750 and 2140, or written permission of the instructor. Prereq: Biology 1750, or permission of instructor.

Microcomputers in Biology (2) A lecture/instructional laboratory in which the student will complete selected biocomputing projects. Prereq: Biology 3410/3415 or written permission of the
BUSINESS ADMINISTRATION

ASSOCIATE PROFESSORS: Abdulllah, Corcoran, Diamond, V. Johnson, Jones, Kaires, McCuen, Danes, Olsen, Pol, South, Turner
ASSISTANT PROFESSORS: O'Hara

The 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 give the students an understanding of the principles of management, marketing and finance and a proficiency in the use of accounting, computers, statistics, and quantitative methods as tools for analysis of business activities. Also the student is made aware of 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 placed 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 that 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. No comprehensive examinations are required. Instead, the integrative course BSAD 8800 must be successfully completed with a grade of A or B in the student’s last nine hours of the degree program.

Degree Requirements

Foundation Courses: A student must have completed basic courses in the following areas either as an undergraduate student or in the early part of the graduate program:

- Economics: BSAD 8160 or Micro- and Macroeconomics at the undergraduate level
- Accounting: BSAD 8110 or 1 year of Principles of Accounting at the undergraduate level
- Computers in Business: DSCI 2310
- Quantitative Methods and Statistics: BSAD 8170 or an equivalent course in each at the undergraduate level
- Production/Operations Management: DSCI 3500
- Business Law: LAW 3320
- Corporate Finance: SFIM 3550
- Management Principles: MGMT 3460
- Marketing: MKT 3310

English Composition is a required foundation course for all foreign students admitted to the MBA Program. Foundation courses cannot be used to meet the 36 semester hour requirement for the MBA degree.

Courses successfully completed ("A", "B", or "C" grades) in the student's undergraduate program are considered as sufficient preparation. Otherwise, the student must include the course identified in the program of study. BSAD 8110, 8170, and 8180 may not be used on a plan of study.

Degree programs include 36 semester hours of work. Students are required to complete the foundation courses before enrolling in either core courses, option courses, or electives.

Graduate Courses: The degree requires a minimum of 36 semester hours for completion. Core Courses 18
Option Courses 12
Electives 6

The six hours of electives must be in one or more areas different from the area of concentration and may be taken in an area outside the College of Business Administration, subject to advance approval by the Director of Graduate Studies.

A thesis is required in one option (Real Estate) and may be elected in others. No comprehensive examinations are required. Instead, the integrative course BSAD 8800 must be successfully completed with a grade of A or B in the student’s last nine hours of the degree program.

Option #1 — Business Administration

Core Courses

- BSAD 8800 Quantitative Analysis
- BSAD 8810 Business and Society
- BSAD 8820 Managerial Economics
- BSAD 8850 Managerial Accounting
- BSAD 8810 Human Behavior in Organizations
- BSAD 8860 Policy, Planning, and Strategy

Option Courses

- BSAD 8610 Marketing Policies
- BSAD 8640 Business Demographics
- BSAD 8645 Seminar in Marketing

Option #2 — Marketing

- BSAD 8900 Research Methods in Economics and Business
- BSAD 8950 Business Conditions Analysis

Option #3 — Decision Sciences

- BSAD 8990 Independent Research (in Decision Science)

Option #4 — Management Information Systems

- BSAD 8710 Structured Software Design
- BSAD 8720 Systems Analysis and Design
- BSAD 8730 Decision Support Systems
- BSAD 8740 Data Base Management
- BSAD 8770 Economics in Management Information Systems

Option #5 — Real Estate

- BSAD 8600 Real Estate and Land Use
- BSAD 8610 Current Problems in Real Estate and Land Use
- BSAD 8990 Theses

8330 Advanced Topics in General Physiology

8830 Environmental Physiology

8900 Scanning Electron Microscopy

8990 Thesis
I. College Mathematics

The development of mathematical techniques, 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 2030.

2. Quantitative Analysis

The study of quantitative techniques and models and their application in business decision making. Prereq: DS 2130 or BA 8170.

3. Business and Society

In this course, the student explores the diversity of societal forces and pressures, both national and international, which produce continuous transition in the system of American capitalism. Business philosophy and ethics will be examined within the framework of the general norms and values of the greater society. The student will study the dynamic character of the law and the resultant changing patterns of control and restrictions which are imposed upon the business enterprise, causing it to thrive or to languish. In examining this fluid environment, the student is aided to discern the modes of adaptation to change. Prereq: EES 2320.


A study of current research techniques in economics and business. The student will become familiar with these techniques through text material, journal studies and actual application. Prereq: DS 2130.

5. Business Information Systems

A study of the importance of information systems and the construction of the and opportunities and problems associated with this activity. Prereq: BA 8000.

6. Applied Quantitative Analysis

A survey of quantitatively-oriented models and techniques applied to a variety of business problems in a case-by-case format. Prereq: BA 8000 and Graduate Standing.

7. Business Conditions Analysis

This course is concerned with the statistical techniques and measures of general business conditions, and the adaptation of the statistical techniques of analysis to the business situation, within the framework of the aggregate economy. Prereq: Econ 2020 or BA 8180.

8. Business Forecasting

This course includes a comprehensive survey of forecasting techniques and in-depth study of selected techniques customarily used in business environment. Emphasis is placed on application and therefore students will be required to develop forecasting models with data that must maintain a 5.0 or better grade in part of the course. Prereq: BA 8000 or ECON 8306 or permission from the instructor.

9. Financial Auditing

Provides an in-depth coverage of the professional and technical aspects of financial auditing as performed by independent public accountants. Audit tools, audit program applications, and reporting obligations will be discussed within an adversarial settings. Prereq: Graduate Standing.

10. Electrical Engineering

Electrical engineering is the study of circuits, devices, communication systems, and control systems that utilize electrical signals. Prereq: ECE 2000 or 2010.

11. Electrical Engineering

Electrical engineering is the study of circuits, devices, communication systems, and control systems that utilize electrical signals. Prereq: ECE 2000 or 2010.
8350 Seminar in Management (3) A student participation course emphasizing current issues and problems in the areas of management theory and operation. Prereq: BA 5000 and BA 8310.

8410 Seminar in Public Policies (3) A marketing seminar to be conducted jointly with a course in business ethics and social responsibility. Exploration, study and critical analysis of contemporary marketing and ethical dilemmas. Prereq: Graduate Standing and Marketing 3310.

8500 Financial Management (3) Examines basic aspects of managing the financial operations of an enterprise with emphasis on analysis, alternative policies for both short and long-term planning, and application and evaluation of financial management techniques. Prereq: BFBN 3520.

8510 Security Analysis (3) A study of the efficient market, market turnover and technical analysis appropriate for evaluating marketable securities. Prerequisites: Financial Management 3400 (or equivalent) and a finance major or minor.

8550 Seminar in Finance (3) A study of current issues, trends, and problems in financial management. Prerequisite: BFIN 4510.

8670 Seminar in Management Information Systems (3) Current issues, trends, and problems in information processing are critically examined. This seminar focuses on topics like Information management, database management, software technology, human-computer interaction, and fourth-generation language. Prereq: BA 8000 and DS 2310.

8800 Policy, Planning and Strategy (3) A comprehensive study of business problems, prospects and opportunities at varying levels of organization. This study encompassing the conceptual issues related to decision making; the decision making objectives which are meaningful for each business situation. Demonstration of the interrelationships between the various disciplines of study. Only an A or B is considered an acceptable grade. Prereq: Taken within the Communication Department.

9000 Comprehensive Exam (3) A study of current issues, trends, and problems in information processing are critically examined. This seminar focuses on topics like Information management, database management, software technology, human-computer interaction, and fourth-generation language. Prereq: BA 8000 and DS 2310.

8990 Thesis (1-6) A research project, under the supervision of a faculty member, to be conducted as indicated for specific workshop or seminar. Prerequisite: Permission of advisor. A research project, under the supervision of a faculty member, to be conducted as indicated for specific workshop or seminar. Prerequisite: Permission of advisor.

8990 Thesis (1-6) A research project, under the supervision of a faculty member, to be conducted as indicated for specific workshop or seminar. Prerequisite: Permission of advisor.

CIVIL ENGINEERING

PROFESSORS: Benak, Hossack, Tadros
ASSOCIATE PROFESSORS: Gilliland, LeMar
ASSISTANT PROFESSORS: Keesler, Yuan

Master of Science

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

Graduate work in Civil Engineering is governed by the general requirements of the Graduate Faculty of University of Nebraska-Lincoln. These regulation and program are subject to approval of the student's advisor and the departmental Graduate Committee.

A student seeking admission should designate the major area in which he/she wishes to study. Major work for the Master of Science degree may be selected from the areas of Structural, Hydraulic, Sanitary, Transportation, and Water Resources Engineering. A minor area may be designated from any of the above areas or from one or more related engineering areas from other universities. Other related areas may be selected without departmental permission.

Doctor of Philosophy Degree. Studies leading to the Ph.D. degree in Engineering are conducted under the engineering doctoral program which is described in the UNL Graduate Bulletin.
810 Introduction to Research in Communica
tion (3) An evaluation of research in communication, including process and products, in comparison to other ways of knowing. Research methods, de
scription, evaluation, and comparison of communication research and its origins to present, with emphasis on mass and political issues. Prereq: BRCT 2310 or DART 1050 and 3 hours of psychology or so-

8180 Topics in Organizational Communica
tion (5) Available content course dealing with organizational communication. Each offering will treat a single aspect of organizational communi-
cation. Prereq: CCM 8010 or equivalent or basic statistics, or permission. Prereq: CCM 8010 or 8020 or permission.

8226 Literary Aspects of Journalism (3) Sur-
vey of the journalistic works of pertinent American writers, including process and products, in comparison to theories of human symbolizing processes (e.g., semiotics, systemic, etc.). Prereq: English 1160.

8236 Public Relations (3) A study of the prin
ciples, problems and techniques of the public rela-
tions function through lectures, discussions and exercises. Prereq: JOUR 2400 or permission.

824 Public Relations Case Studies (3) Anal-
ysis, discussion and critique of actual public rela-
tions cases, involving problems of public relations. Prereq: JOUR 4200 or permission.

8376 Communication Workshop (3) A work-
shop to explore communication problems relating to the American system of broadcasting. Prereq: English 1160.

8416 Communications Law (3) A discussion of the legal assumptions and the current political, legal and political history, and their relationships to current media issues. Prereq: Graduate standing and major in Communication or instructor's per-
mission.

8406 Mass Media and Society (3) An essay on the mass communication system in the United States with particular attention to freedom of the mass media and their relationships to political activities in our contemporary democratic society. Prereq: Graduate standing and major in Communication, or instructor's permission.

8470 Foundations Seminar: Mass Commu-
nication (3) This seminar will be directed toward students preparing to take the major, a minor, or advanced seminars in Communication. The mass communication system in the United States will be examined in terms of its philosophical and legal assumptions and the current political, sociological and psychological theories relating to the process and effect of mass communication. Prereq: Graduate standing and major in Communication or instructor's permis-
sion.

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 sounds, structure, and meaning, and symbols. Prereq: CCM 8010 or DART 1050 or permission of instructor.

8570 Foundations Seminar: Mass Commu-
nication (3) A seminar for students preparing to take the major, a minor, or advanced seminars in Communication. The mass communication system in the United States will be examined in terms of its philosophical and legal assumptions and the current political, sociological and psychological theories relating to the process and effect of mass communication. Prereq: Graduate standing and major in Communication, or permission.

8680 Critical Thinking (3) Study of major
trends in film criticism and theory in Europe and the United States. Prereq: Consent of instructor or approval of committee. Prereq: BRCT 2310 or DART 1050 or permission of instructor.

8700 Seminar in Small Group Commu-
nication (3) Research and theory in the process of small group communication and small group research procedures; methods for developing skills in small group communication. Prereq: 850 or equivalent or basic statistics, or permission. (Same as Sociology 9400.)

8762 Communication Research Methods (3) A study of the research methods and procedures for conducting communication research. Prereq: Graduate standing and major in Communication, or permission.

8763 Film Theory and Criticism (3) Study of major trends in film criticism and theory in Europe and the United States. Prereq: Consent of instructor or approval of committee. Prereq: BRCT 2310 or DART 1050 or permission of instructor.

8776 Communication Systems in Organiza-
tions (3) The study of the mass media as social institutions, particularly in their relationship to government and the public, with emphasis on ethical considerations.

8786 Language and Society (3) The study of social meaning, and symbols. Prereq: CCM 8010 or DART 1050 or permission of instructor.

8790 Seminar in Small Group Commu-
nication (3) Research and theory in the process of small group communication and small group research procedures; methods for developing skills in small group communication. Prereq: 850 or equivalent or basic statistics, or permission. (Same as Sociology 9400.)
COUNSELING AND SPECIAL EDUCATION

ASSOCIATE PROFESSORS: Allen, Birtner, Callahan, Harrington, Michael, Squiers
ASSISTANT PROFESSORS: Christiansen, Gleeson, Lombach

Programs in Counseling and Special Education are offered by the Counseling and Special Education Department. Admissions examinations for programs in this department are identified in the General Information section of this catalog.

Counseling and Guidance Programs

The Counseling and Guidance 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 admissions requirements and procedures. One such exception from the general Graduate Studies procedures are different admission deadlines for Counseling and Guidance in May 1 for either Summer Session and the Fall Semester, and December 1 for the Spring Semester. Students are admitted to the programs in Counseling and Guidance twice each year, if students wish to begin the program at a different time from those indicated, they may discuss this with faculty in the department.

Students are admitted and permitted to continue programs in Counseling and Guidance 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) admission to candidacy and 2) prior to taking the Counseling Practicum or Internship courses. Successful completion of a Counseling Practicum or Internship is a requirement for graduation.

Students obtain a Master's degree in Counseling and Guidance with an area of specialization. Current specialization areas include Elementary School Counseling, Secondary School Counseling, Student Personnel Services, and Counseling in Gerontology.

NOTE: Non-counseling degree students may obtain an elective option in Effective Humanization Processes. This consists of a 12 hour block of courses which must be authorized by the Graduate Program Committee and the student's advisor for this to be officially included as part of the student's degree program.

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 with a major in counseling and guidance 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

Specialization in Agency Counseling

I. Foundation Course (3)
TED 8010 Introduction to Research
3 hours

II. Required Counseling Courses (5)
COIN 8200 Counseling Techniques I
3 hours
COIN 8230 Counseling Theories
3 hours
COIN 8250 Counseling Techniques II
1 hour
COIN 8270 Group Techniques
1 hour
COIN 8300 Counseling Practices
1 hour
COIN 8310 Counseling Techniques I
1 hour
COIN 8310 Counseling Techniques II
1 hour
COIN 8310 Counseling Techniques III
1 hour
COIN 8320 Practicum
3 hours
COIN 8320 Advanced Practicum
4 hours
COIN 8320 Practicum
3 hours
COIN 8320 Internship
3 hours
COIN 8450 College Student Personnel Internship
3 hours
III. Electives (5-9)
The elective courses are selected in consultation with advisor and in accordance with the student's particular background and interests. Students may elect to work with special populations in special settings.

Usual Total Hours: 41-44 hours

Master of Science

Specialization in Secondary Counseling

I. Foundation Course (3)
TED 8010 Introduction to Research
3 hours

II. Required Counseling Courses (30)
COIN 8200 Counseling Techniques I
3 hours
COIN 8230 Counseling Theories
3 hours
COIN 8300 Counseling Practices
3 hours
COIN 8310 Counseling Techniques I
1 hour
COIN 8310 Counseling Techniques II
1 hour
COIN 8310 Counseling Techniques III
1 hour
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8370 Group Techniques
1-3 hours

III. Electives (6)
The elective courses are selected in consultation with advisor and in accordance with the student's particular background and interest. Students may elect to work with special populations or in special school settings.

Total: 39 hours

Master of Science

Specialization in Elementary Counseling

I. Foundation Course (3)
TED 8010 Introduction to Research
3 hours

II. Required Counseling Courses (25)
COIN 8200 Principles of Guidance
3 hours
COIN 8230 Counseling Theories
3 hours
COIN 8300 Counseling Techniques I
1 hour
COIN 8310 Counseling Techniques II
1 hour
COIN 8320 Vocational Decision Making
3 hours
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8370 Group Techniques
1-3 hours

III. Electives (6)
The elective courses are selected in consultation with advisor and in accordance with the student's particular background and interest. Students may elect to work with special populations or in special school settings.

Total: 39 hours

Master of Science

Specialization in College Student Personnel Work

I. Foundation Course (3)
TED 8010 Introduction to Research
3 hours

II. Required Counseling Courses (25-27)
COIN 8150 The Student & Personnel Work in Higher Education
3 hours
COIN 8230 Counseling Theories
3 hours
COIN 8300 Counseling Techniques I
3 hours
COIN 8310 Counseling Techniques II
1 hour
COIN 8320 Counseling Techniques III
1 hour
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8320 Practicum
3 hours
COIN 8370 Group Techniques
1-3 hours
COIN 8450 College Student Personnel Internship
6 hours

III. Selected Cognate Courses (12-18)
These courses are selected in consultation with the student's particular area of interest; 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.

Total: 38-44 hours
Master of Science: Counseling with Specialization in Gerontology

The Counseling Degree Program with Specialization in Gerontology is a cooperative effort of the Counseling and Special Education 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 Counseling 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.

I. Foundation Course

COUN 8010 Introduction to Research
3 hours

II. Required Courses in Counseling

COUN 8000 Principles of Guidance
3 hours

COUN 8030 Counseling Practice
3 hours

COUN 8270 Group Techniques
3 hours

COUN 8290 Counseling Theories
3 hours

COUN 8310 Counseling Techniques I
1 hour

COUN 8310 Counseling Techniques II
1 hour

III. Additional Courses in Counseling selected with advisor on the basis of student's background and interests.

9-15 hours

IV. Gerontology

15 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 advisor's assistance and in collaboration with the Gerontology Program.

V. Practicum and Internship

6-9 hours

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

Usual total hours: 41-48 hours

Special Education Programs

Master of Arts: Speech Pathology

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

1. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) must be taken and scores submitted to the Special Education Department for consideration before applications are evaluated and processed to the Graduate College. A raw score of 35 on the MAT is required for initial entrance into the program.

2. Two letters of recommendation from people who know your undergraduate work well must be submitted to the Department before the application shall be processed.

3. 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).

4. Have successfully completed a minimum of thirty-nine 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 Speech Reading and Auditory Training
SPED 4370 Hearing Disorders
SPED 4380 Speech Science I: Speech Mechanisms
SPED 4390 Hearing Science
SPED 4420 Language Development in Children
SPED 4430 Communication Disorders
SPED 4500 Language Disorders in the Elementary and Secondary Schools
SPED 4510 Speech Clinical Practicum in Speech Pathology
SPED 4750 Language Disorders in Childhood

5. For those students who wish to work toward special state certification in the schools, advisor consultation should be sought early in the program to determine credit hours. Students may choose any of the courses in the area numbered 8000 or above, contingent upon advisor approval.

6. Ten-sixty semester hours of coursework and practicum. These hours may be taken from the following:

I. Required Courses:

SPED 8010 Introduction to Research
SPED 8450 Diagnostic Methods in Communication Disorders
SPED 8460 Advanced Clinical Practicum in Speech Pathology (Schools)
SPED 8480 Advanced Clinical Practicum in Speech Pathology (Externship)
SPED 8500 Advanced Clinical Practicum in Communication Disorders

II. Elective Courses in Communication Disorders

Students may choose any of the courses in the area numbered 8000 or above, contingent upon advisor approval.

7. Pass a written comprehensive examination, administered under the direction of the Departmental Graduate Committee.
Master of Science: Teaching the Hearing Impaired Students

The Master of Science degree with a major in teaching the hearing impaired is based on the standards for the certification of teachers of the hearing impaired as developed by the Committee on Professional Preparation and Certification adopted by the Council on the Education of the Deaf. Students who plan to enter this program must show evidence of holding a valid certificate in one of the following areas: elementary education, secondary education, K-12 special content area.

A Nebraska pre-standard certificate and a CED provisional certificate will be recommended upon satisfactory completion of the program.

1. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) must be taken and accepted submitted to the Special Education Department for consideration before applications are evaluated and processed to the Graduate College. The MAT is required for initial entrance into the program unless the student is hearing impaired or a non-native English speaker.

2. SPED 8206 History, Education and Guidance in Hearing Impairment 2 hrs.
3. SPED 8225 Teaching Speech to the Hearing Impaired 2 hrs.
4. SPED 8236 Language Development of Hearing Impaired Children 3 hrs.
5. SPED 8246 Teaching of Language to the Hearing Impaired 3 hrs.
6. SPED 8375 Basic Audiology 3 hrs.
8. SPED 8955 Hearing Science 3 hrs.
9. SPED 8900 Special Projects 3 hrs.
10. SPED 8710 Introduction to Research 3 hrs.
11. SPED 8720 Seminar in Special Education 3 hrs.
12. SPED 8720 Student Teaching, 3 hrs.
13. SPED 8730 Advanced Student Teaching 3 hrs.

Minimum of 38 hours required. Competence in simultaneous communication is required in the student teaching experience is initiated. Comprehensive examination or thesis option is required.

Admittance and Retention Requirements

To be admitted and retained in the program, the student must:

1. be admitted to the University of Nebraska Graduate College.
2. take the Miller Analogies Test within the first nine hours of coursework.
3. complete at least a “B” in each course of the first twelve hours of coursework.
4. hold a Bachelor’s degree with a valid teaching certificate or complete the necessary deficiencies to hold certification.
5. maintain at least a “B” in each course of the first twelve hours of coursework.

Course Requirements

SPED 8010 Introduction to Research 3 hours
SPED 8106 or PSY 8506 Psychology of Exceptional Children 3 hours
SPED 8236 Normal Language Development and Disorders for Teachers 3 hours
SPED 8246 Bilingual/Bilingual Language Development and Curriculum 3 hours
SPED 8606 Introduction to Mental Retardation 3 hours
SPED 8646 Methods and Materials in Special Education 3 hours
SPED 8670 Methods of Instruction for the Severely/Profoundly Handicapped 3 hours
SPED 8655 Career Development for the Handicapped 3 hours
SPED 8666 Developing Vocational Training Programs for the Severely Handicapped 3 hours
SPED 8716 Interactions Between Professionals and Parents of the Handicapped 3 hours
SPED 8906 Emotional Development of Children and Youth 3 hours
SPED 8916 Classroom Techniques for Behavior Control 3 hours
SPED 8720 Basic Student Teaching 3 hours
SPED 8910 Theory of Assessment and Diagnosis of Learning Disabilities 3 hours
SPED 8110 Assessment and Curriculum in Cognitive Development for the Severely/Profoundly Handicapped 3 hours
SPED 8690 Sensory Disabilities and Physical Handling in the Multiply Handicapped Child 3 hours

Master of Arts: Mental Retardation

The Master of Arts degree with a major in Mental Retardation is a program designed for persons wanting to focus further graduate study in the area of mental retardation with an emphasis on investigations research project through the completion of a thesis. Any student seeking an endorsement must complete all certification requirements in addition to the six hours thesis. A written examination is not required of students in this program. Students will be required to answer questions about coursework completed in the master’s degree program during their thesis defense.

Admittance and Retention Requirements

To be admitted and retained in the program the student must:

1. be admitted to the University of Nebraska Graduate College.
2. take the Miller Analogies Test within the first nine hours of coursework.
3. complete at least a “B” in each course of the first twelve hours of coursework.
4. hold a Bachelor’s degree with a valid teaching certificate or complete the necessary deficiencies to hold certification.
5. maintain at least a “B” in each course of the first twelve hours of coursework.

Course Requirements

SPED 8010 Introduction to Research 3 hours
SPED 8106 or PSY 8506 Psychology of Exceptional Children 3 hours
SPED 8236 Normal Language Development and Disorders for Teachers 3 hours
SPED 8246 Bilingual/Bilingual Language Development and Curriculum 3 hours
SPED 8606 Introduction to Mental Retardation 3 hours
SPED 8646 Methods and Materials in Special Education 3 hours
SPED 8670 Methods of Instruction for the Severely/Profoundly Handicapped 3 hours
SPED 8655 Career Development for the Handicapped 3 hours
SPED 8666 Developing Vocational Training Programs for the Severely Handicapped 3 hours
SPED 8716 Interactions Between Professionals and Parents of the Handicapped 3 hours
SPED 8906 Emotional Development of Children and Youth 3 hours
SPED 8916 Classroom Techniques for Behavior Control 3 hours
SPED 8720 Basic Student Teaching 3 hours
SPED 8910 Theory of Assessment and Diagnosis of Learning Disabilities 3 hours
SPED 8110 Assessment and Curriculum in Cognitive Development for the Severely/Profoundly Handicapped 3 hours
SPED 8690 Sensory Disabilities and Physical Handling in the Multiply Handicapped Child 3 hours

*Mental Retardation Note: To meet K-12 certification, students with only elementary certification will be required to student teach at the secondary level. Students with only secondary certification will be required to teach at the elementary level. Those students with K-12 certification will select a site in consultation with their advisor. However, the student teaching requirement (SPED 8720) may not be fulfilled in the student’s own classroom.

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 Impaired 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 Impaired 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 (36) hours must be completed for the Master of Science degree in Teaching the Emotionally Disturbed. Students selecting the thesis option will take SPED 8990 for 6 hours in place of comprehensive examinations after consultation with their advisor. 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.

Admittance and Retention Requirements

To be admitted and retained in the program the student must:

1. fulfill all entrance requirements of the Graduate College of the University of Nebraska, 
2. meet the Miller Analogies Test within the first nine hours of coursework, 
3. hold a Bachelor’s degree with teaching certification in one or more teaching areas or complete the necessary deficiencies to hold certification, 
4. complete courses in learning theory – 3 hours, curriculum development - 3 hours, Psychology of Exceptional Child - 3 hours, and student teaching - 3 hours, and 
5. maintain at least a “B” in each course of the first twelve hours of coursework.
Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TED 8010</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8235</td>
<td>Language Development and Disorders for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8656</td>
<td>Career Development for the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8716</td>
<td>Interactions Between Professionals and Parents of the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8806</td>
<td>Emotional Development of Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8901</td>
<td>Classroom Techniques for Behavior Control</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8920</td>
<td>Educational Strategies for Emotionally Disturbed Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8930</td>
<td>Practicum in Teaching the Emotionally Disturbed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8940</td>
<td>Advanced Practicum in Teaching the Emotionally Disturbed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8980</td>
<td>Introduction to Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8990</td>
<td>Theory of Assessment and Diagnosis of Learning Deficits</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPED 8990</td>
<td>Thesis (thesis option only)</td>
<td>6</td>
</tr>
</tbody>
</table>

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, and treat students who have identified learning disabilities. The student must complete a minimum of 36 semester credit hours with a major in teaching, child development, curriculum development, and student teaching. A written comprehensive examination is not required of students choosing the thesis option. Admissions criteria include a minimum of 36 semester credit hours required of students choosing the thesis option.

Admittance and Retention Requirements

To be admitted and retained in the program the student must:

1. be admitted to the University of Nebraska Graduate College,
2. take the Miller Analogies Test within the first nine hours of coursework,
3. hold a bachelor's degree with a valid teaching certificate from a state education agency or complete the deficiencies necessary to meet certification,
4. meet with an advisor for an interview before the first semester of coursework,
5. show evidence of successful completion of courses which are related to child development - 3 hours, curriculum development - 3 hours and student methods courses - 3 hours and student teaching (or equivalent) - 3 hours, any minor.
6. maintain at least a "B" in each course of the first twelve hours of coursework.

Course Requirements

The course requirements are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TED 8010</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8235</td>
<td>Language Development and Disorders for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8656</td>
<td>Career Development for the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8716</td>
<td>Interactions Between Professionals and Parents of the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8920</td>
<td>Educational Strategies for Emotionally Disturbed Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8930</td>
<td>Practicum in Teaching the Emotionally Disturbed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 8990</td>
<td>Thesis (thesis option only)</td>
<td>6</td>
</tr>
</tbody>
</table>

Counseling and Guidance

4910/8916 Child Abuse/Neglect: What You Can Do (3) This course is designed to help students increase their awareness of child abuse and neglect. The course will focus on the dynamic increase in the number of children being abused and neglected, as well as on the awareness of the signs of abuse/neglect, the reporting of abuse/neglect, and the development of policies and procedures to prevent abuse and neglect. Prereq: Permission of instructor.

4920/8926 Crisis Intervention and Suicide (3) This course will focus on crisis intervention, to the most extreme of crises, suicide, along with an overview of the current community approaches directed toward resolution of such crises as situations, deaths, and prevention of suicide and intentional self-harm/made disorders. Prereq: For 4920, 4th or 5th Standing.

4420/8426 Vocational Decision Making (3) This course is designed to acquaint students in the profession of teaching or school counseling with the specifics relevant to how people make vocational choices. Prereq: 4220 Jr. or Sr. Standing.

6650 Career Development for the Handicapped (3) A curriculum oriented for teachers and related professionals to work with the career development of handicapped individuals. Includes information for elementary through high school with emphasis on intermediate and junior high school levels. Cross listed with SPED 4650/6650.

7450/8756 Mid-Life, Career Change, Preparation 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 an implication of preparation planning. Particular attention will be given to model evaluation and evaluation of appropriate models to assist in navigating the career change process. Prereq: Permission of instructor.

7604/8764 Human Decision Making and Counseling (3) This course will focus on decision making and counseling protocols and processes. This course is an overview of counseling procedures. Prereq: permission of instructor.

8100 Research Project in Counseling and Guidance (1-3) Individual or group study and analysis of specific problems in the field. Prereq: TED 8010 and permission of the instructor.

8110 Counseling With Parents (3) This course will provide a capstone experience on working with families. Prereq: 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. Prereq: COUN 8250 or COUN 8260 or permission of instructor.

8906 (Same as TED 8806) Guidance Skills for Educators (3) Course designed to familiarize educators with guidance skills of the field, the role of the educator in these activities, and to develop educators of appropriate guidance and learning skills. No credit given for TED 8806. Prereq: Permission of instructor.

8909 Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for gerontology. Prereq: Permission of instructor.

9000 Special Studies in Counseling and Guidance (1-6) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

9010 Teaching Models in Affective Education (3) A study of models of teaching in affective areas of education; a variety of models will be explored with special emphasis on counseling and implementing activities in classroom situations. Prereq: ELED 4260 or SED 4260 or permission of instructor.

9020 Principles of Guidance (3) The introductory course for students majoring in Counseling and Guidance. A study of the basic principles underlying Counseling and Guidance. Students will begin counseling skill development in this course. It will be taken concurrently with COUN 9030, Practicum Courses. Prereq: Permission to Graduate College and the Counseling and Special Education Department or by permission.

9030 Counseling Practicums (3) This is a practicum course for counseling majors. Course is designed to develop basic counseling skills. Prereq: Admission to counseling program or permission of instructor.

9040 Research Project in Counseling and Guidance (1-3) Individual or group study and analysis of specific problems in the field. Prereq: TED 8010 and permission of the instructor.

9120 Counseling With Parents (3) This course will provide a capstone experience on working with families. Prereq: Permission of instructor.

9150 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. Prereq: COUN 8250 or COUN 8260 or permission of instructor.

9990 Project Course (1-12) Individual study and research. Prereq: Permission of instructor.

COUNSELING AND SPECIAL EDUCATION
8200 Counseling Theories and Techniques (3) Study of contemporary theories of counseling, the counseling process and methods, and the active engagement of skills related to counseling techniques.
PreReq: COUN 8200 and concurrent enrollment.

8210 Organization and Administration of Guidance Service in Secondary Schools (3) Study of organizational patterns and administrative practices in guidance and counseling programs.

8220 Counseling Practicum (3) Supervised experiential counseling in counseling. Prereq: Two or more hours in counseling including COUN 8200 and COUN 8230.

8230 Appraisal Techniques in Counseling and Guidance (3) Appraisal Techniques in Counseling and Guidance. Discusses the history of individual appraisal, the major technical considerations involved in the use of appraisal and measurement devices in the cognitive and affective domains. The course will include use and implications of interest and aptitude test results. Additionally, this course will cover the responsible use and interpretation of information and skills of ability, aptitude, personality, and career development measures. Prereq: COUN 8200, 8230, or permission of instructor.

8240 Counseling Practicum (3) An analysis of the counseling and therapeutic practices. A program designed to provide experience in counseling. Prereq: COUN 8200, 8230.

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

8260 Internship (3-6) Field experience in an approved counseling program under the supervision of a qualified counselor and a guidance professor. Prereq: COUN 8220. Permission of department.

8270 Group Techniques in Guidance (1 or 3) Lecture and laboratory, techniques and applications of group process (3 hours). Students with a departmental internship may take a maximum of one course for one hour credit. All other students must take a maximum of three hours credit. Prereq: permission of instructor to graduate program in Counseling or permission of instructor.

8280 Counseling Older Adults and Their Families (2) A study of issues related to the counseling of older adults and their families. (Same as Ger 8200) Prereq: COUN 8240 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 community and its impact 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 standing.

8300 Counseling Techniques I (3) Study of counseling techniques emphasizing the Adlerian counselor approach; beginning skills development in the use of these techniques. Prereq: COUN 8200.

8310 Counseling Techniques II (3) Study of counseling techniques emphasizing the rational-emotive therapy (and other cognitive approaches to counseling). To begin the development of skills using these techniques. Prereq: COUN 8200, Counseling Theories.

8330 Elementary School Counseling Practicum (4) Counseling in the elementary setting under the supervision of an experienced counselor of the university. Prereq: COUN 8230 and permission of department.

8340 Secondary School Counseling Internship (3) Field experience in an elementary counseling program under the supervision of an in-school personnel. Prereq: COUN 8230 and permission of department.

8400 Counseling Techniques III (1) This course is intended to assist students in developing more systematic investigations into browsing and gathering information and skills of the application of those techniques. Also course responsibilities are course work of counseling. Prereq: COUN 8300 Counseling Techniques I, COUN 8310 Counseling Techniques II, or permission of instructor.

8410 Counseling Theories (3) This course is intended to assist students in developing more systematic investigations into browsing and gathering information and skills of the application of those counseling theories and techniques under supervision of faculty. Prereq: COUN 8200 - Counseling Theories or permission of instructor.

8420 Independent Study in Counseling Theories and Techniques (1-3) Guided study of counseling theory and techniques under supervision of faculty. Prereq: Permission of instructor.

8470 Practicum in Group Counseling (4) Supervised experience component of counseling group counseling. This course is to have a maximum of one course for one hour credit. All other students must take a maximum of three hours credit. Prereq: permission of instructor to graduate program in Counseling or permission of instructor.

8510 Alcoholism Treatment Modalities (3) Application of knowledge of the nature and structure of alcoholism, treatment, and counseling students. Prereq: COUN 8200, 8220, 8270, or permission of instructor.

8510 Alcoholism Treatment Modalities (1) Application of knowledge of the nature and structure of alcoholism, treatment, and counseling students. Prereq: COUN 8200, 8220, 8270, or permission of instructor.

8600 Parent Education (3) A study of several existing Parent Education programs. The students develop parenting skills by becoming involved as study group members. Students learn how to conduct parent education research. Prereq: Research study on a problem in Parent Education facilities/leaders. It is an experiential-oriented course. The understanding of family dynamics, human behavior and important components of this course. Prereq: Graduate standing.

8610 Introduction to Marital and Family Therapy (3) This course is designed to acquaint students with the history and evolution of marital and family counseling theory and techniques. Basic theoretical models, interventions, and future directions in the education of marital and family counselors. Prereq: Permission of instructor.

8620 Directed Readings in Counseling and Gerontology (1-3) This course is intended to assist students in developing more systematic investigations into browsing and gathering information and skills of counseling with older people. Prereq: COUN 8200, 8250 and/or Ger 8200 or permission of instructor.

8990 Thesis (1-6) Independent research project written under the supervision of an advisor. Prereq: Permission.

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

8470 Practicum in Group Counseling (4) Supervised experience component of counseling group counseling. This course is to have a maximum of one course for one hour credit. All other students must take a maximum of three hours credit. Prereq: permission of instructor to graduate program in Counseling or permission of instructor.

8510 Alcoholism Treatment Modalities (3) Application of knowledge of the nature and structure of alcoholism, treatment, and counseling students. Prereq: COUN 8200, 8220, 8270, or permission of instructor.

4040/8040 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 the Instructor.

4100/8100 Psychology of Exceptional Childen (3) A study of exceptional children and adolescents with sensory or motor impairments, intellectual retardations or superiorities, gifted abilities, language or speech discrepancies, emotional or behavioral maladjustments, and gifted abilities, language or speech discrepancies, cultural differences, or major specific learning disabilities. Cross listed with PSY 6000.

4108/8116 Assessment and Curriculum in Cognitive Development for the Severely/Profoundly Handicapped (3) This course will involve a combination of lectures, demonstrations and practical experiences designed to prepare the student to be able to assess and plan educational programs in the severely handicapped student and apply that information to the development of individual educational plans for severely handicapped students. The course will include a combination of practical and academic presentations and projects. Prereq: Graduate student, permission of instructor. Undergraduate student, junior standing in special education major. Prereq: 1010 or PSY 3010, CORE 2100, 2500, 2800 or equivalents, and permission of instructor.

6920/8206 The History, Psychology and Sociology of Disability (3) This is an introductory course which surveys historical, sociological, psychological, and future directions in the education of hearing impaired children. Basic understandings of definitions, initiatives, theories, and research are explored in a highly independent manner. An in-depth experience in an agency working with children or adults who are hearing impaired is expected. Basic understanding is developed which will assist the student as he/she begins a career in a Hearing Impaired or related program. Prereq: Permission of instructor.

6920/8206 The History, Psychology and Sociology of Disability (3) This is an introductory course which surveys historical, sociological, psychological, and future directions in the education of hearing impaired children. Basic understandings of definitions, initiatives, theories, and research are explored in a highly independent manner. An in-depth experience in an agency working with children or adults who are hearing impaired is expected. Basic understanding is developed which will assist the student as he/she begins a career in a Hearing Impaired or related program. Prereq: Permission of instructor.

2240/8240 Using Microcomputer Software in Special Education (3) This course is designed to introduce students to the microcomputer as a tool for teaching and learning in special education. An In-depth experience in an agency working with children or adults who are hearing impaired is expected. Basic understanding is developed which will assist the student as he/she begins a career in a Hearing Impaired or related program. Prereq: Permission of instructor.

2240/8240 Using Microcomputer Software in Special Education (3) This course is designed to introduce students to the microcomputer as a tool for teaching and learning in special education. An In-depth experience in an agency working with children or adults who are hearing impaired is expected. Basic understanding is developed which will assist the student as he/she begins a career in a Hearing Impaired or related program. Prereq: Permission of instructor.

2240/8240 Using Microcomputer Software in Special Education (3) This course is designed to introduce students to the microcomputer as a tool for teaching and learning in special education. An In-depth experience in an agency working with children or adults who are hearing impaired is expected. Basic understanding is developed which will assist the student as he/she begins a career in a Hearing Impaired or related program. Prereq: Permission of instructor.

2240/8240 Using Microcomputer Software in Special Education (3) This course is designed to introduce students to the microcomputer as a tool for teaching and learning in special education. An In-depth experience in an agency working with children or adults who are hearing impaired is expected. Basic understanding is developed which will assist the student as he/she begins a career in a Hearing Impaired or related program. Prereq: Permission of instructor.

2240/8240 Using Microcomputer Software in Special Education (3) This course is designed to introduce students to the microcomputer as a tool for teaching and learning in special education. An In-depth experience in an agency working with children or adults who are hearing impaired is expected. Basic understanding is developed which will assist the student as he/she begins a career in a Hearing Impaired or related program. Prereq: Permission of instructor.
H. I. Program and Normal Language Development class.

4330/8336 Aural Rehabilitation (3) This course includes the research and methodology of speech reading and auditory training as they pertain to the hearing impaired child. Participants will learn and evaluate of popular tests and methods are experienced in a practicum setting. Types of hearing loss and deafness are discussed. Various educational techniques are presented. Prereq: SPED 8567 or permission. Prereq: Graduating student.

4350/8356 Teaching Content Subjects to the Hearing Impaired (3) This course will be divided into basic, primary, and unit teaching strategies for students with normal visual impairments and for hearing impaired children. Participants will be expected to develop instructional strategies for teaching auditory related skills. Potential techniques for teaching auditory related skills include the auditory development model, techniques for teaching auditory related skills, and techniques for teaching auditory related skills. Prereq: Graduate degree in special education, psychology, or related field.

4420/8426 Development in Child Syndrome (3) and for post-masters education for practicing teachers. A total of five of the course is to introduce basic concepts important for understanding the process of human audition. The course will also explore techniques for teaching reading, writing, and critical thinking skills. Prereq: Graduate standing.

4450/8456 Speech Science I: Experimental and Applied Phonetics (3) and phonetic elements in major American English dialects; practice in transcription of standard and descriptive speech, use of the sound spectrogram, space, and other equipment. Prereq: For 4451, junior standing 2.5 GPA. (F,Su)

4590/8596 Disorders of Communication in Older Adults (3) This course is designed to familiarize teachers with the speech and language disorders of older adults. Emphasis will be placed on the importance of recognizing and dealing with speech and language disorders in this age group. Prereq: Graduating students.

4650/8656 Career Development for the Handicapped (3) This course is designed to familiarize teachers with the career development of handicapped individuals. Includes information for elementary through adult students. Prereq: For 4660, junior standing, 2.5 GPA. Prereq: Graduating students.

4660/8666 Developing Vocational Training Programs for the Severely Handicapped (3) and for post-masters education for practicing teachers. A total of five of the course is to introduce basic concepts important for understanding the process of human audition. The course will also explore techniques for teaching reading, writing, and critical thinking skills. Prereq: Graduate standing.

4690/8696 Counseling and Special Education (3) and for post-masters education for practicing teachers. A total of five of the course is to introduce basic concepts important for understanding the process of human audition. The course will also explore techniques for teaching reading, writing, and critical thinking skills. Prereq: Graduate standing.
62 DEGREE REQUIREMENTS

8430 Advanced Studies in the Disorders of Learning Disabilities (S) Types and causes of rate, rhythm and stress pattern disorder: nationals for cause, study of the morphology and therapy; special emphasis on rehabilitation procedures associated with individual involvement; practicum. (S)

8440 Advanced Studies in The Disorders of Language, Speech and Communication (H) Types and causes of language symbolization disorders; nationale for case selection; childhood applications; emphasis on rehabilitation procedures associated with individual involvements; practicum. (S)

8450 Current Practica in Speech Pathology (F) This course provides for study and experience in the field of speech pathology through practical training using theoretical modification techniques based on Skinnerian principles. It includes a review of current literature and emphasizes current articulatory, phonologic and other theoretical procedures. (Su) Prereq: SPED 8606.

8460 Diagnostic Methods in Communication Disorders (F) This course is an introduction to the study of individual patients with speech disorders; problems in diagnosis of the speech disorders; the study of diagnostic procedures and techniques in the assessment of speech disorders. (S) Prereq: Graduate standing and 6 hours of speech pathology.

8470 Speech Science I: Neurophysiology of Speech and Language (3) Introduction to the brain mechanisms and sensory and motor functions which mediate our speech production and perception. (F) Prereq: Graduate standing and 6 hours of speech pathology.

8480 Advanced Audiology (S) This course is designed to expose students to problems of communication by which the child with a hearing impairment communicates. Developing competencies for re-evaluation and audiological possibilities and facilities in the speech pathologist's office is the primary aim of this course. (S) Prereq: Graduate standing and 6 hours of speech pathology.

8490 Cleft Palate (F) This course in speech pathology is designed for graduate students and public school speech clinicians. This course is designed to expose students to the problems of communication by which the child with a cleft palate communicates. Developing competencies for re-evaluation and audiological possibilities and facilities in the speech pathologist's office is the primary aim of this course. (F) Prereq: Graduate standing and 6 hours of speech pathology.

8500 Advanced Clinical Practicum in Communication Disorders (S) This course provides for study and experience in the field of communication disorders through practical training. (S) Prereq: Permission and SPED 4510 or equivalent.

8510 Advanced Clinical Practicum in Communication Disorders (S) This course provides the student with an "externship" experience for clinical practicum in a school setting; cooperation with the cooperating clinician serving children in a typical school program. A minimum of 120 clock hours of required credit. Prereq: SPED 4510 and graduate standing.

8520 Advanced Clinical Practicum in Communication Disorders (S) Students are selected and evaluated by the director of the student's program. 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 specific population of handicapped children. A minimum of 130 clock hours of work is required for credit. Prereq: SPED 4510 or equivalent.

8530 Seminar in Speech Pathology (S) This student selects and investigates three different areas of speech pathology; this seminar provides an overview of speech pathology and a review of professional literature. (S) Prereq: Graduate standing and 6 hours of speech pathology.

8540 Alaryngeal Speech Rehabilitation (S) Problems of voice and speech rehabilitations for the individual without a functional larynx; current research pertinent to this area. Social, emotional, and medical considerations as well as clinical procedures will be discussed. (F) Prereq: SPED 8606 or equivalent or permission of instructor.

8550 Seminar in Speech Pathology (S) This course provides an overview of clinical techniques used in the treatment of childhood communicative disorders. (S) Prereq: Graduate standing and 6 hours of speech pathology.

8560 Speech Problems of Cerebral Palsied Children (3) Identification of types of cerebral palsy by a local, regional, or national cerebral palsy rehabilitation team. The role of the speech clinician on the team; types of speech therapy, with special emphasis on techniques applicable to the assessment of speech pathology. (S) This course is designed for graduate students and public school speech clinicians. The course is also designed for other professional exacerbations for assessment of site of lesion will be stressed. The use of case histories, etiological concerns of identification and mastery, and on-field mentorship will be considered. Prereq: SPED 4570.

8570 Advanced Clinical Practicum in Communication Disorders (S) This course provides the student with an "externship" experience for clinical practicum in a hospital setting; cooperation with the cooperating clinician serving children in a typical hospital program. A minimum of 120 clock hours of required credit. Prereq: SPED 4510 and graduate standing.

8580 Advanced Seminar in Speech Pathology (S) This course provides a reporting of the student's progress and study in greater detail legal issues at the state and federal level and current legislation relating to special education. The course is open to all students in all areas of special education. Assignments will be made based on the student's degree and acceptance in the SPED program.

8590 Advanced Practicum in Special Education (S) This course is designed for graduate students who need more than one semester of classroom experience with exceptional children for graduate students who have completed the second semester of classroom experience with exceptional children in the SPED program. This course includes overviews of typical educational techniques in Early Childhood Education for the Handicapped. (S) Prereq: SPED 8060 or permission.

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 present the course as a discussion of the role of the speech clinician on the team; types of speech therapy, with special emphasis on techniques applicable to the assessment of speech pathology. (S) Prereq: Graduate standing and 6 hours of speech pathology.

8610 Teaching Severely/Profoundly Handicapped (3) This course/workshop is intended to provide the student with indepth practicum experiences in clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made based on the student's degree and acceptance in the SPED program.

8620 Educational Strategies for Emotionally Disturbed Children Adolescents (3) This course will focus on research, teaching, and counseling on issues that are specific to the education of emotionally disturbed children and adolescents. A minimum of 130 clock hours of work is required for credit. Prereq: SPED 4510 or equivalent or permission of instructor.

8630 Practicum In Teaching Emotionally Disturbed (3) A semester of participation in a classroom situation in the field of educationally Handicapped children and adolescents. Prereq: SPED 8470, 8806, 8816 or equivalent or permission of instructor.

8640 Advanced Practicum In Teaching Emotionally Disturbed (S) A semester of participation in a clinical or classroom situation in the field of Teaching Emotionally Disturbed children and adolescents. Prereq: SPED 8470 and permission.

8650 Diagnostic and Remediation Techniques in Early Childhood Education for the Handicapped (3) This course is designed for graduate students and public school speech clinicians. The course is also designed for other professional exacerbations for assessment of site of lesion will be stressed. The use of case histories, etiological concerns of identification and mastery, and on-field mentorship will be considered. Prereq: SPED 4570.

8660 School Practicum (4) The purpose of this course is to provide the student with the practical information needed to administer and supervise an educational program for handicapped individuals. This course is designed for graduate students and public school speech clinicians. The course is also designed for other professional exacerbations for assessment of site of lesion will be stressed. The use of case histories, etiological concerns of identification and mastery, and on-field mentorship will be considered. Prereq: SPED 4570.

8670 Basic Practicum in Special Education (F) This course provides the student with an "externship" experience for clinical practicum in a hospital setting; cooperation with the cooperating clinician serving children in a typical hospital program. A minimum of 120 clock hours of required credit. Prereq: SPED 4510 or equivalent.
8970 Clinical Teaching in Learning Disabilities (3) Theoretical and limited practical knowledge of a particular kind of teaching which is to tailor learning experiences to the unique needs of children who have specific learning disabilities. The student learns of the possibilities and continuous probing needed for individualized instruction. Prereq: None.

8990 Thesis (1-6) Required of all students taking master of arts degree, see major adviser for information. (F,S,Su)

CRIMINAL JUSTICE

PROFESSORS: Siegel, Walker

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 for the Criminal Justice Graduate Program

All candidates 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 Sciences 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 coursework. 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 hours)*
  - 8000 Professions in Criminal Justice
  - 8010 The Nature of Crime
  - 8020 Seminar in Administration of Justice
  - 8030 Criminal Justice Research Theory and Methodology

- **Elective Criminal Justice Courses** *(student selects five (5) courses with advisor 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
  - 8120 Independent Study
  - 8180 Criminal Justice Internship
  - 8200 Special Problems in Criminal Justice
  - 8316 Correctional Law
  - 8356 Community Based Corrections

-AIl courses, except 8000, carry three hours credit.

Master of Science

The Master of Science degree is a 36 credit-hour ten-thesis program. This degree program offers the student a choice of either the standard Master of Science curriculum or a Master of Science with an option in Public Administration, a Master of Science with an option in Counseling, or a Master of Science with an option in Social Work. The Public Administration option is especially recommended for administrators or future administrators within the criminal justice system. The Counseling option and the Social Work option are designed for those who wish to work with juvenile and adult offenders in the criminal justice system.

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

- **Required Core Courses** *(9 hours)*
  - 8000 Professions in Criminal Justice
  - 8010 The Nature of Crime
  - 8020 Seminar in Administration of Justice
  - 8030 Criminal Justice Research Theory and Methodology

- **Elective Criminal Justice Courses** *(student selects five (5) courses with advisor 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
  - 8120 Criminal Justice Internship
  - 8180 Independent Study
  - 8200 Special Problems in Criminal Justice
  - 8316 Correctional Law
  - 8356 Community Based Corrections

Satisfactory completion of the comprehensive examination is also required.
Master of Science (Counseling Option)

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

Required Core Courses*
- 8000 Professor of Criminal Justice
- 8010 The Nature of Crime
- 8020 Seminar in Administration of Justice
- 8030 Criminal Justice Research Theory and Methodology

Required Counseling Courses
- 8060 Counseling Practice
- 8020 Principles of Guidance

Elective Counseling Courses

In consultation with an advisor the student selects two (2) additional counseling courses. Suggested courses include, but are not limited to the following:
- 8270 Group Techniques in Guidance
- 8370 Group Counseling Theory and Practice
- 8076 Crisis Intervention/Forensics
- 8200 Counseling Theory

Elective Criminal Justice Courses

(20 courses with advisor approval)

Satisfactory completion of the comprehensive exam is also 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
- 8000 Professor of Criminal Justice
- 8010 The Nature of Crime
- 8020 Seminar in Administration of Justice
- 8030 Criminal Justice Research Theory and Methodology

Required Social Work Courses
- 8100 Human Behavior and the Social Environment
- 8105 Social Welfare Policy, Services and Analysis
- 8107 Social Work Practice I (General) (2)
- 8123 Social Work Practice II (Micro) (2)
- 8140 Social Work Practice III (Macro) (2)

Child Welfare Option
- 8100 Human Behavior and the Social Environment
- 8107 Social Work Practice I (General) (2)
- 8166 Permanence for Children
- 8160 Social Work in Child Welfare

Minority Emphasis
- 8000 Human Behavior and the Social Environment
- 8250 Social Welfare Policy, Services and Analysis

Elective Courses

(20 courses with advisor approval)

Elective Criminal Justice Courses

Satisfactory completion of the comprehensive exam is also required.

4310/8316 Correctional Law
- 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.

4350/8356 Community Based Corrections
- 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.

8020 Seminar in Administration of Justice
- Seminar in Administration of Justice 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. Prereqs: Graduate standing and permission of instructor.

8030 Criminal Justice Research Theory and Methodology
- 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 standing and permission of instructor.

8040 Seminar in Police and Society
- Seminar in Police and Society is designed specifically to explore the role of the police in American society. Attention is given to the origins of policing, the nature of police organizations, job opportunities, and the use and community based strategies for dealing with the offender. Prereq: None.

8060 Seminar in the Criminal Court System
- Seminar in the Criminal Court System provides an overview of the major dimensions of crime in the U.S. Content areas included are the epidemiology of crime, the costs of crime, and typologies of crime and criminals. Prereqs: Graduate standing and permission of instructor.

8076 Crisis Intervention/Forensics
- Seminar in Crisis Intervention/Social Work provides 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. Prereqs: Graduate standing and permission of instructor.
counsel, search and seizure, and Interrogation will be examined. Prereq: Graduate standing and per-
mission of instructor.

8080 Seminar in Juvenile Justice (3) An in-
quity in the social ramifications of the entire ju-
vilary justice process including labeling, detec-
tion, Incarceration and tolerance. Pre-
and permission of instructor. Issues are dealt with as
each a realistic perspective given to delinquency pre-
vention and correction. Prereq: Graduate Stand-
ing and Permission.

8090 Seminar in Theoretical Criminology (3) A study of the etiology of crime as a social phe-
nomenon and an objective analysis of the his-
torical influences and thought which molded its
development into an accepted contemporary sci-
ence. Prereq: CS/CSci3350, graduate standing and
permission of instructor.

8100 Criminal Justice Organization, Admin-
istration, and Management (3) This course will
deal with issues in the organization and administra-
tion of modern justice agencies. The students will
be exposed to theories, concepts, and issues relat-
ing to the administration and organi-
ization 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 exami-
nation of planning data sources and application of
theoretical planning, manpower planning, and strat-
gic policy planning to criminal justice. Graduate
standing and permission of instructor.

8180 Criminal Justice Internship (3) This course is designed to provide supervised indivi-
dual experiences in criminal justice agencies. The
principal objective of the inter-
ernship is to provide students with the opportunity
to apply theoretical and methodological principal
concepts to the analysis of problems in local criminal justice agencies. Prereq:
Successful completion of 15 hours of graduate work and permission of the instructor.

8190 Independent Study (1-3) Individual proj-
ects in research, literary review, or creative pro-
duction which may or may not be an extension
of course work. The work will be supervised and
must be approved by the instructor.

8200 Special Problems in Criminal Justice (3) A course devoted to an exploration and anal-
ysis of contemporary special problems in the field of
justice and law. Prereq: Graduate standing and
permission of instructor.

8205 Seminar in Theoretical Criminology (3) A historical survey of the theatre and its liter-
arture from its origins to 1642. Prereq: Consent of
the instructor.

8270/8276 Seminar in Theatrical History (3) Selected subjects in theatre history from ancient
to modern times. The subject of the course will
come about each year, according to the interest of
the students and the instructor. Prereq: Permission
of the instructor.

8300-8345/8365 Seminar in Dramatic Literature (3) A seminar for graduate and advanced
undergraduate students which will examine special
subjects in dramatic literature in depth. Research
papers will be required, and the overall grade of the
subject of the seminar will change from year to
year. Prereq: Permission of the instructor.

8290 People's Theatre Practicum (3) A prac-
tical, theatre-making and analyzing workshop in
which students examine performance, direction,
and educational needs in the area and develop
theatre projects - plays, workshops, scenarios,
events - educational programs using theatre for
local or regional audiences. Prereq: Consent of in-
structor and graduate standing.

8340 Seminar in Play Direction (3) An in-
depth study of the principles of play direction.
Excellent for students with an interest in the top-
ography and history of the theatre, and a desire to
understand the theatre and television; elementary elec-
tricity; theater lighting and stagecraft.

Prospects for students interested in the field provide an essential foundation for
the theatre and television; elementary electricity; theater lighting and stagecraft.
8990 Dramatic Arts Research Methods (3)
This course is designed to introduce graduate students 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: DA 1010 or permission of instructor.

ECONOMICS

PROFESSORS: Lue, Nelson, Sand, Zahn
ASSOCIATE PROFESSORS: Corcoran, Diamond, Karel, Sosan, Turner

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 forecasting, simulation, and admission to the M.A. program. Prerequisites are based on GPA, undergraduate field of study and the GRE results.

Master of Science

The M.S. program consists of core requirements (15 hours), an elected specialization (6 to 12 hours), electives (9 to 15 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 3 credits. Total hours required: 36. Each student must complete the core requirements.

Core (15 hours)

ECON 8200 Microeconomic Theory
ECON 8220 Macroeconomic Theory
ECON 8306 Quantitative Applications in Economics and Business*
ECON 8205 Research Methods
ECON 8300 Econometrics

Electives (9-15 hours)
ECON 8326 Natural Resource Economics
ECON 8236 Empirical Methods in Finance
ECON 8290 Research Methods

Total hours required: 36.

Electives (9-12 hours)
ECON 8300 Microeconomic Theory
ECON 8220 Macroeconomic Theory

Total hours required: 36.

Master of Arts

The M.A. program consists of: core requirements (12 hours), an elected specialization (6 to 12 hours), electives as necessary (including 6 hours of thesis), a comprehensive exam in the area of specialization, and a defense of the thesis. Total hours required: 30.

Core (12 hours)

ECON 8200 Microeconomic Theory
ECON 8220 Macroeconomic Theory
ECON 8290 Research Methods
ECON 8300 Econometrics

Electives (9-12 hours)
ECON 8326 Natural Resource Economics

Total hours required: 30.

Suggested Specializations

1. Economic Theory
   ECON 8150 Seminar in Labor Economics
   ECON 8550 Monetary Theory and Policy
   Electives

   Total: 12 hours

2. Environmental and Natural Resource Economics
   ECON 8216 Industrial Organization
   ECON 8256 Industrial Organization
   ECON 8266 Natural Resource Economics

   Total: 12 hours

3. Monetary and Financial Economics
   ECON 8210 Monetary Theory and Policy
   ECON 8455 Macroeconomic Theory and Policy
   ECON 8550 Research Methods
   BA 8350 Banking and Financial Markets
   BA 8550 State and Local Finance

   Total: 12 hours

4. International Economics
   ECON 8650 Seminar in International Economics
   ECON 8616 International Trade
   ECON 8266 International Monetary Economics
   ECON 8266 International Economic Development
   Electives

   Total: 12 hours

5. Urban and Regional Economics
   ECON 8550 Seminar in Urban Economics
   ECON 8570 Seminar in Regional Economics

   Total: 9 hours
can be related to the teacher’s classroom presentation. This course is designed to furnish the public school teacher with (K-12) with sufficient background and understanding to aid in the recognition of economic factors 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) Study and investigation of current developments in labor involving labor institutions, labor relations, wage theories and employment policies. Prereq: Econ 2390 and 2390 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, cost theory, the firm, distribution theory, and welfare theory. Prereq: Econ 3200, 3220 and 3836 or permission.

8210 Managerial Economics (Same As BA 8100) (3) Managerial and graduate students for student use. Economic analysis of the business firm and its environments, with emphasis on market structures, production possibilities, and cost factors. Additional consideration is given to the theory of the firm under conditions of uncertainty. Prereq: Graduate standing in the college of business administration.

8220 Seminar in Micro Theory (3) This course traces the development of macroeconomic theory from the classical point of view to current state of thought. Keynesian, neo-Keynesian, and neoclassical theories are developed. Prereq: Econ 3300 and 3220 or permission.

8230 Business Conditions Analysis (Same As BA 8200) (3) This course is concerned with the statistical measurement and evaluation of general business conditions, and the adoption 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 economic model. Prereq: Econ 3300 or permission.

8290 Research Methods in Economics and Business (3) A study of current quantitative research techniques. The student will become familiar with these techniques through text materials, journal studies and actual research work. Prereq: D J. 8200 or in the department of economics. Not open to students who have had BA 8200.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

PROFESSORS: Kellem, O’Reilly, Petrie, Roosens, D. Weber

Master of Science

An applicant for admission to the program for the Master of Science degree in educational administration and supervision (with endorsement) must hold a Bachelor’s degree from an accredited institution and have at least a grade point average of 3.0 or better. The student must have completed either a comprehensive major field test or alternatively, a comprehensive thesis. The student must also have completed at least 36 semester hours in the major areas of educational administration and supervision.

8300 Econometrics (3) The study of the underlying assumptions, techniques, and applications of single and multiple regression, and in-depth study of selected techniques most commonly used in business environments. Emphasis is given to applications and therefore the student will design and test models and test their performance as part of the course work. Prereq: Econ 8000 or Econ 8300 or Permission of Instructor.

8410 Seminar in Money and Banking (3) Original research and writing of papers on basic problems in the area of money and banking. Emphasis is given to the practical application of the theoretical knowledge. Prereq: Econ 3650 or 4650 or permission of instructor.

8550 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. (Also listed under geog. and sociol.) Prereq: At least 6 hours of upper division course work in economics or permission of the instructor.

8860 Administration of The Instructional Materials Center (3) A course designed for students who wish to prepare themselves for the administration of a media program within an elementary and/or secondary school. (Also listed under instructional media.) Prereq: Permission of instructor.

8800 Special Studies in Educational Administration and Supervision (3) A series of intensive courses especially designed for educational administrators and supervisors—scheduled as regular classes by the Department of Educational Administration. Prereq: Permission of instructor.

8800 Governance and Politics in Educational Administration (3) This course explores the political and administrative systems in our school districts. Historical and political factors influencing school policies and programs of today’s schools are discussed, as well as current trends. Prereq: Admission to Graduate College.

8810 Introduction to Theory in Educational Administration (3) This course is a survey of the theoretical foundations of educational administration. Prereq: Admission to Graduate College. Prereq: 8800.

8920 Data Processing In Educational Administration (1-3) Individual or group study and research of selected problems in educational administration. Prereq: Admission to Graduate College.

8950 Practicum in Educational Administration (1-3) Individual or group study and research of selected problems in educational administration. Prereq: Admission to Graduate College.

8990 Thesis (1-6) An independent research project, written under the supervision of a graduate advisor in the department of educational administration. Approval of the graduate advisor and the department’s departmental committee is required. Prereq: Permission of graduate advisor.

8970 Practicum (1-6) An independent practicum project, written under the supervision of a graduate advisor in the department of educational administration. Approval of the graduate advisor and the department’s departmental committee is required. Prereq: Permission of graduate advisor.
74 DEGREE REQUIREMENTS

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 modern schools. This course will include the latest psychological, logical, business administration and educational administration concepts of personnel and organizational development. They apply to educational systems. Prereq: EDAD 8350, EDAD 8460, or EDAD 8470.

8550 School Business Management (3) An analysis of the functions of business management; budgetary procedures; financial accounting; auditing and reporting; management of funds, purchases, and supplies; and administration 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 and teacher knowledge of the principles of building construction and maintenance of school furniture and equipment; maintenance and operation of schools, including repairs and security; the relationship of work, and custodial care. Prereq: Graduate standing.

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 aspects. The emphasis will be placed upon the techniques of democratic administration.

8710 Interpersonal Relationships in Educational Administration (3) This course is designed to deal with interpersonal and group relationships. It should be useful to all administrators who recognize the need to increase their knowledge and skill in human relationships.

8810 Urban School Administration (3) This course is designed to acquaint students of urban administration with urban problems and approaches which most significantly affect the administration of city schools.

9000 Seminar in Research Design (3) A seminar designed to help students with the principles of research design and to provide an opportunity for the application of these principles to problems in educational administration. Prereq: Admission to E.D.S. Program.

9101 Advanced Topics 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.

9500 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 standing.

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 EdD Program.

9200 Supervision Practicum (3) A practicum course for graduate students in educational administration and supervision. Prereq: Post-master's and permission.

9500 Internship in School Administration and Supervision (3) Hours are determined by the school principal; must take two semesters. A systematic exposure to the various phases of the school administration and supervision on site, the graduate student's responsibilities will be discussed, and the relationship of the administration and supervision on site, the graduate student's responsibilities will be discussed, and the relationship of the administration and supervision to the school principal. Prereq: Graduate standing and permission of the department head.

9540 School Law (3) This course is concerned with laws related to schools. Topics include certification, contract, negligence, curriculum, administration, pupil control, and transportation. Each is approached through study of most recent cases and pronouncements.

8156 Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels in translation. Prereq: Permission of the instructor. (Same as French 4158/5156 and German 4150/5156).

8176 French and German Drama (3) Comparative study of selected contemporary French and German plays. Conducted in English with translation and analysis. Prereq: French 4170/5176 or German 4170/5176. Prereq: Permission.

8186 Chicano Literature and Culture (3) A study of representative works of Mexican American writers, presented in English with English translations. (Same as Spanish 4180/8186).

8256 Introduction to Women's Studies in English (3) A critical study of selected works of literature which reflect about women in which students learn about contemporary women and their importance in society. Prereq: Permission. (Same as Spanish 4180/8186).

8265 Introduction to Women's Studies in Literature (3) An introduction to the concepts and methodologies of the study of literature focusing on women, including works of literature about women. Prereq: Permission of the instructor.

8326 Middle English Literature (3) A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500.

8336 Sixteenth Century Literature (3) Poetry and prose of the English Renaissance, from its contended origins to the end of the Elizabethan age.

8346 Chaucer (3) A literary and linguistic study of the works of Chaucer, with emphasis on the Canterbury Tales.

4110/8416 The Age of John (3) Poetry, prose (exclusive of the novel), and drama of England during the seventeenth century, with emphasis on Boswell and Johnson. Prereq: Graduate standing.

8456 Seventeenth Century Literature (3) A study of the English prose and poetry from 1600 to 1660, indicating such authors as John Donne, Ben Jonson, Sir Francis Bacon, Sir Thomas Browne, and John Milton.

8506 Shakespeare's Contemporaries (3) A study of the development of the English drama, through a study of the works of Shakespeare, from the beginning to 1642.

8556 Introduction to Linguistics (3) An introduction to the concepts and methodologies of the scientific study of language, including language description, history, theory, variation, and acquisition, and foreign language teaching.

8606 Shakespeare (3) A critical study of selected plays and sonnets.

8626 Restoration and Eighteenth Century Literature (3) Poetry, prose (exclusive of the novel), and drama of the Restoration and eighteenth century (1660-1800), with emphasis on Swift and Johnson. Prereq: Graduate standing.

8646 The Eighteenth Century English Novel (3) Readings in the English novel from Daniel Defoe to Jane Austen.

8666 The Nineteenth Century English Novel (3) Readings in the English novel from Jane Austen to Thomas Hardy.

8666 The Twentieth-Century English Novel (3) Readings in the English novel from Joseph Conrad to the present.

8686 History of English (3) A study of the structural development of the English language. Prereqs: English 4580/8580 or permission.

8756 Rhetoric (3) A study of contemporary rhetorical theories of invention, form, and style and the development of written discourse, with special emphasis on such contemporary works as Kenneth Burke, Ross Whitehead, Edward P.J. Corbett, Francis Chislett, and others.

8756 Rhetoric (3) A study of contemporary rhetorical theories of invention, form, and style and the development of written discourse, with special emphasis on such contemporary works as Kenneth Burke, Ross Whitehead, Edward P.J. Corbett, Francis Chislett, and others.
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: English 4800/8866 or permission.

8787 Structure of The Victorian Period (3) Poetry and prose (excluding the novel) of England from 1798 to 1830.

8788 Literature of The Victorian Period (3) English poetry and prose (excluding the novel) from 1830 to 1900.

8856 Twentieth Century English Literature (3) Readings in English literature from Shaw and Yeats to the present.

8857 Modern French Women Authors (3) A comparative treatment of works by women in contemporary and recent French literature; the female perspective on society, politics, and cultural values as expressed in these works. Conducted in English with occasional readings in French or French 4800/8866. Prereq: Permission of instructor.

8858 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: English 4580/8866 or permission.

8916 Contemporary Poetry of England and America (3) A study of the English and American poetry, the important ideas it contains, and the relevant critical theory of the contemporary period. Prereq: English 4800/8866.

8936 American Poetry (3) The practice and theory of American poetry from the colonial period to the present. Prereq: English with readings in French or English. (Same as French 4800/8866). Prereq: Permission of instructor.

9410/9416 Seminar: Shakespeare (3) A detailed study of selected English authors and works of Shakespeare and their works. Prereq: Graduate standing or permission of the instructor.

9460 Studies in Language and Literature (3) Speculative subjects (when offered) appear in class schedules. Complete syllabus available in English Department.

9556 Contemporary Literature: Major Figures and Major Movements (3) A critical study of the major literary figures and major movements which have appeared since World War I.

9565 Seminar: Linguistics (3) A seminar in a selected sub-field or problem area of linguistics such as sociolinguistics, generative semantics, applied linguistics, descriptive languages, teaching English as a foreign language, etc. Prereq: English 4580/8866 or permission. Prereq: Permission.

9786 The American Novel (3) A critical and historical study of the work of twelve or more significant American novelists of the nineteenth and twentieth centuries.

9896 The American Drama (3) A study of the American drama and its thematic development from the beginning to the present day, with concentration on the drama of the twentieth century.

1010 Seminar: Introduction to Literary Research (3) A survey of literary research, history, and interpretation, with a primary emphasis on methods of scholarship currently useful to the study of English and American literature. Prereq: Graduate standing or permission of the chairman of the department of English.

9840 Seminar: Literary Criticism (3) Literary criticism from the ancient world to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth century France and America. Prereq: Graduate standing or permission of the chairman of the department of English.

9860 Seminar: American Literature (3) An introduction to the American Renaissance. Prereq: Graduate standing or permission of the chairman of the department of English.

9869 Seminar in The English Renaissance (3) A seminar in a few significant literary figures of the English renaissance. Prereq: Graduate standing or permission of the chairman of the department of English.

9870 Seminar: The Restoration and Eighteenth Century (3) A detailed study of selected English authors and works of the Restoration and the Eighteenth Century (1660-1800). Prereq: Graduate standing.


9980 Independent Study (1, 2, or 3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of an instructor. Prereq: Graduate standing and one course in middle language English or French. Prereq: Permission.

9985 Seminar: Chaucer (3) A study of selected works of Geoffrey Chaucer. Prereq: Graduate standing or permission of the instructor.

9990 Independent Study (1, 2, or 3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of an instructor. Prereq: Graduate standing and one course in middle language English or French. Prereq: Permission.

9995 Seminar: American Literature 1750-1830 (3) An introduction to the American literature of the period of the American Revolution and the early republic. Prereq: Graduate standing.

9996 Seminar: Shakespeare (3) A critical analysis of ten tragedies, ten histories, or ten comedies of Shakespeare. Prereq: Permission of thesis director.
4250/8256 Landform Studies: Slope Geomorphology. A lecture course with emphasis on techniques of field techniques. Prerequisites: permission.

4260/8266 Landform Studies: Process Geomorphology. Primarily a lecture and laboratory course. Emphasis is on methodology and modern process-oriented geomorphology. Prereq: Geog. 4250/8256 or 1173. 1 credit.

4320/8326 Climatology. A study of climatic processes and their effect on shaping the cultural and physical landscape. Emphasis on paleoclimatology and applied aspects of the field. Prereq: Geog. 4060 or 3050. 3 credits.

4530/8536 Historical Geography of The United States. An analysis of historical circumstances behind contemporary patterns of American cultural geography. Prereq: Graduate standing and Hist. 1110 and 1120 or Geog 1020 or 3330. 4 credits.

4610/8616 Field Methods in Geography and Geology. A systematic investigation in lecture and field of techniques for studying rock and terrain features, land-use characteristics, and the nature of their patterns as a part of the whole geographic and geological environment. The course is designed to accommodate variable needs of students with different backgrounds and career choices. Prereq: Permission. 2 credits.

4630/8636 Environmental Remote Sensing. An analysis of various sensor systems ranging from conventional low-altitude aerial photography through imagery obtained from earth-orbiting platforms such as "Landsat" with emphasis on practical applications. Provides basic tools for environmental evaluation. 3 credits.

8000 History and Philosophy of Geography. (3) Introduction to history of geography. Emphasis on significant ideas, concepts, methodologies, and philosophies of geography from classical Greeks to present. Prereq: Permission. 3 credits.

8040 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. 1 credit.

8150 Seminar in Cultural Geography. (3) The philosophy and cultural geography of the United States. Emphasis is on depicting the cultural characteristics of the United States. Prereq: Permission. 3 credits.

8150 Geography of Agriculture. (3) A systematic study of the characteristics and patterns of world agriculture. Prereq: Permission. 3 credits.

8500 Special Topics in Geography. (1-3) This course will provide for an in-depth study of a geographical area or geophysical problem (as in the course sub-title). Subjects will be offered as sections of Geography 8500. Students may repeat Geog 8500 as often as they like as long as they qualify for the course. Prereq: Unrestricted is determined by the Graduate Program Committee and Dean for Graduate Studies. Prereq: Variable. 1-3 credits.

8510 Advanced Geomorphology. (3) Seminar and lecture course on the field of land form 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 1170. Permission. 3 credits.

8560 Soils. (3) An examination of the older geographical concepts of the distribution and morphology of soil and the new ideas concerned with soil forms on a regional, rather than a zonal, basis. Prereq: Geog. 4060 or 1170 and permission. 3 credits.

8600 Independent Research. (1-3) Advanced study for 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 research project, it is required to make an oral presentation of research results to General Seminar or a professional meeting. Prereq: 15 graduate hours in geography and permission. 1-3 credits.

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 multi-disciplinary in nature. Prereq: Geog. 4630/8636. 3 credits.

8650 Advanced Geomorphology. (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 upon field investigations in the urban areas, with the functional region receiving the major consideration. Prereq: Geog. 4120/8126. 3 credits.

8670 Cartographic Methods. (3) Teaches effective map layout and use of advanced cartographic techniques. Introduction to the field of cartography and the design and interpretation of maps. Prereq: 3 credits. 3 credits.

8690 Internship in Environmental/Regional Planning. (1-6) Repeatable up to 6 hours. Internship with local planning agencies enabling students to gain practical experience. Prereq: Permission. 1-6 credits.

8710 Interdisciplinary Seminar On The Urban Community. (2-6) Interdisciplinary seminar course on the metropolitan community. Credit will be given for different kinds of behavior patterns concerning with urban problems are put on broad interdisciplinary focus. Prereq: Unrestricted is determined by the Graduate Program Committee and Dean for Graduate Studies. Prereq: Permission. 2-6 credits.

8990 Thesis. (1-6) Independent research project written under the supervision of an advisor. 1-6 credits.

9550 Topics in Regional Geomorphology of North America. A seminar on the landform processes of North America from the perspective of a particular geomorphologic process viewed on a regional basis rather than the general geomorphology of a specific region. Prereq. Permission. 3 credits.

GERONTOLOGY

PROFESSORS: Missinne, Thorton
ASSOCIATE PROFESSORS: Horsens, Waskel

Certificate in Gerontology

While UNO does not offer a graduate degree in Gerontology, a 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 behavioral sciences at the graduate level.

Requirements

1. Students wishing to work toward the Certificate in Gerontology must make application and be accepted into the Gerontology Program; application must also be made for admission to graduate studies. Those wishing to work toward a graduate degree must also be accepted into the degree program and their major department.

2. Coursework requirements consist of a minimum of 15 semester hours in Gerontology. The only required course is GERO 9110. Applied Social Gerontology (3 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 meet his or her career goals and interests.

3. A one semester full-time practicum or its equivalent is also required. The goal of this is to give each student one-on-one experience with the aged in a service program or agency delivering services to the elderly. Practicum students must register for GERO 8986 Practicum and participate in periodic seminars with the Practicum Supervisor of the Gerontology Program.

Example of a program of study

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:

GERO 9110 - Applied Social Gerontology (3 semester hours) - required of all students at the graduate level.

GERO 8110 - Educational Gerontology (3 semester hours)
GERO 8466 - Aging and Human Behavior (3 semester hours)
GERO 8967 - Programs and Services for the Aging (3 semester hours)
GERO 8966 - Counseling Skills in Gerontology (3 semester hours)
GERO 8946 - Public Health (6 semester hours)

8110 Educational Gerontology (3) An introduction to the field of education for and about the elderly. An introduction to the historical and processes of educational development will be analyzed to determine their relationship to the aged and those who are aging.

8110 Educational Gerontology (3) An introduction to the field of education for and about the elderly. An introduction to the historical and processes of educational development will be analyzed to determine their relationship to the aged and those who are aging.

8110 Educational Gerontology (3) An introduction to the field of education for and about the elderly. An introduction to the historical and processes of educational development will be analyzed to determine their relationship to the aged and those who are aging.

8466 Aging and Human Behavior (3) In-depth study of human aging and the changes which may occur in older age. Applications of various personality theories concern mental health issues in the elderly. Prereq. 3 hrs. gerontology or permission.

4480/8486 Comparative Gerontology (3) The study of aging around the world by a comparative method in a cross-cultural, cross-geographical framework. An explanation of some of the common experiences and developmental phenomena which are now observed and those who are aging.

4500/8506 Legal Aspects of Aging (3) Consideration of the legal concerns which are likely to arise as people age. Includes introduction to the legal system, and emphasis on underlying legal concepts and issues of special importance to older people. Prereq: Permission. 3 credits.

4850/8516 Long-Term Care Administration (3) An investigation of the broad and complex issues, theoretical concerns, and practical ma-
agreement strategies influencing the design, organization, and delivery of long-term care services. Cross-listed with Public Administration 85616.

PreReq: Gerontology 9110 - Applied Social Gerontology.

4520/8526 Mental Health and Aging (3) An examination of mental health problems that are pertinent 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 health and disease disorders. (Same as HED 4550.)

4590/8596 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 elective course or as required 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 4500/8500 or permission.

4670/8676 Programs and Services for the Elderly (3) This course is provided to give the student an understanding of the various services that are available 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: 3 hrs. Gerontology.

4690/8696 Working With Minority Elders (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. (Same as Social Work 8696.) Prereq: Senior or graduate standing in Gerontology or Social Work or permission of the instructor.

4750/8756 Mid-Life, Career Change, and Pre-Retirement Planning (3) An examination of mid-life as it applies to the concept of second careers, emerging resources, and the future of second careers; and the concept and practical implications of pre-retirement planning. (Same as Counseling 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. Practical observation, 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 "care" system, hospice, can be offered. Prereq. Work 4850/8856. Prereq: 8750 or permission.

4920/8926 Special Studies in Gerontology (1-3) Special study designed to meet individual student and needs of the individual student in such as the psychology, sociology, economics, or politics of aging, as well as operation of various service systems. The studies may be either a literature review project or a field project in which experience is gained in the community identifying and assessing needs and services related to older people. Prereq: Six hours Gerontology or permission.

4940/8946 Practicum (0-6) This course provides the opportunity to field experience, to obtain guidance concerning various relationships with agency, staff, and clients and to develop a broad based perspective of the field of aging. Prereq: Nine hours Gerontology and permission.

4980/8986 Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for application in gerontology. Prereq: Permission of instructor.

5290 Counseling Older Adults and Their Families (2) A study of issues related to the counseling of older adults and their families. (Same as COUN 5290) Prereq: Permission or permission.

6730 Thanatology-Study of Death (3) An examination of theory and research relevant to the interaction of the deadener and family, focusing on communication with widows and other survivors including the dying patient. Prereq: Gerontology Graduate standing. 3 hrs. Gerontology, Prereq: 6730.

8560 Directed Readings to Counseling and Gerontology (1-3) A study of recent and current literature on counseling with older people. Prereq: Gerontology (1-3) A study of recent and current literature on counseling with older people. Prereq: Gerontology 8560 or permission.

8760 Personal Values and Aging (1) Course designed to increase students' self-awareness of personal values and feelings related to aging and the aged.

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 of Gerontology. Prereq: (Same as Sociology 9111.) Prereq: Graduate Standing.

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: As Psychology 8480. Prereq: 12 hours of psychology and/or gerontology or permission.

**Master of Arts and Master of Science**

**Core Courses**

HPER 8830 Research in HPER

HPER 8820 Problems and Issues in HPER

**Specialization Courses**

Specialization courses for both the Master of Arts and Master of Science.

HPER 8850 Special Studies inGerontolog

HPER 8810 Research Project

HPER 8830 Analysis of Research and Literature in HPER

HED 8540 Alcohol Dependency Workshop

HED 8560 Topics in Health Education

HED 8526 Health Promotion at the Workplace

HED 8525 Human Sexuality

HED 8530 Alcoholism

HED 8556 Health Aspects of Aging

HED 8570 Alcoholism and Drug Abuse

HED 8580 Health Aspects of Stress Management

HED 8585 Health Promotion/Counseling

PE 8016 Laboratory Methods in Exercise Science

PE 8017 Exercise Physiology

PE 8019 Supervision of Physical Education

PE 8020 Curriculum in Physical Education

PE 8170 Instructional Techniques in Physical Education

PE 8450 Motor Learning and Performance

PE 8451 Kinesthetics Analysis of Motor Skills

PE 8456 Behavioral Aspects of Coaching

PE 8458 Measurement and Evaluation in Physical Education

PE 8465 Nutrition

PE 8465 Exercise Physiology

PE 8467 Advanced Exercise Physiology of Exercise

PE 8470 Topics in Sports Medicine

RUS 8246 Organization and Administration of Recreation

RUS 8247 Recreation Programming

RUS 8248 Outdoor Recreation Resource Planning

RUS 8256 Recreation for the Aging

RUS 8257 Career Options and Internship in Therapeutic Recreation

RUS 8516 TR Process and Procedure

RUS 8535 Training and Facilities Techniques

RUS 8546 Trends and Issues in Therapeutic Recreation

**Health, Physical Education, and Recreation**

**Professors:** R. Berg, Flynn, Kidd

**Assistant Professors:** Blankie, Buchanan, Corbin, Lundahl, Metz-Corbin, Stewart

**Assistant Professors:** Greer, Labin

The School of Health, Physical Education, and Recreation offers graduate courses in the areas of health, physical education (physical education teaching track and exercise science track), and recreation in one of the following areas: health, physical education (physical education teaching track), and recreation of management.

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.

Students in the degree programs must take the GRE or MAT before their second enrollment in the graduate studies.

**Master of Arts and Master of Science**

**Core Courses**

HPER 8830 Research in HPER

HPER 8820 Problems and Issues in HPER

**Specialization Courses**

Specialization courses for both the Master of Arts and Master of Science.

HPER 8850 Special Studies in Gerontology

HPER 8810 Research Project

HPER 8830 Analysis of Research and Literature in HPER

HED 8540 Alcohol Dependency Workshop

HED 8560 Topics in Health Education

HED 8526 Health Promotion at the Workplace

HED 8525 Human Sexuality

HED 8530 Alcoholism

HED 8556 Health Aspects of Aging

HED 8570 Alcoholism and Drug Abuse

HED 8580 Health Aspects of Stress Management

HED 8585 Health Promotion/Counseling

PE 8016 Laboratory Methods in Exercise Science

PE 8017 Exercise Physiology

PE 8019 Supervision of Physical Education

PE 8020 Curriculum in Physical Education

PE 8170 Instructional Techniques in Physical Education

PE 8450 Motor Learning and Performance

PE 8451 Kinesthetics Analysis of Motor Skills

PE 8456 Behavioral Aspects of Coaching

PE 8458 Measurement and Evaluation in Physical Education

PE 8465 Nutrition

PE 8465 Exercise Physiology

PE 8467 Advanced Exercise Physiology of Exercise

PE 8470 Topics in Sports Medicine

RUS 8246 Organization and Administration of Recreation

RUS 8247 Recreation Programming

RUS 8248 Outdoor Recreation Resource Planning

RUS 8256 Recreation for the Aging

RUS 8257 Career Options and Internship in Therapeutic Recreation

RUS 8516 TR Process and Procedure

RUS 8535 Training and Facilities Techniques

RUS 8546 Trends and Issues in Therapeutic Recreation

**General HPER**

8800 Special Studies (1-3) A series of intensive courses—scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.
I1.1 Search Project (1-3) Individual or group study and analysis of specific problems in health, physical education or recreation. Prereq: Permission of Instructor.

I1.22 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 student status.

I1.232 Literature Review in HPER (Survey) Survey of research and literature in HPER for the purpose of orienting the student to the nature of research and developing an understanding of and appreciation for writings in HPER.

I1.390 Thesis (1-6) Independent research project written under the supervision of an advisor. Prereq: Permission.

Education

2400/8206 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 participate in a work site health promotion program to study: analysis, health behavior, program content, the industry, and program evaluation.

4550/8556 Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health and aging of older persons, with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: Graduate standing.

4050 Alcohol Dependency Workshop for Professionals (1-3) A concentrated look at problems related to drinking, with particular emphasis given to biological, psychological, and social factors that influence alcohol use. This course will be divided into two segments, with the first segment providing a biopsychosocial model of alcohol dependence and the second segment providing a critical evaluation of the psychological, sociological and medical aspects of alcoholism. Prereq: Graduate standing and health education.

6590 Health Education Practicum (1-3) This course offers graduate students in health education an opportunity to gain practical experience through the design and implementation of health education programs in local schools, businesses, hospitals/clinics, voluntary health agencies, or governmental health agencies. Prereq: 21 credit hours in health education (graduate or undergraduate).

Physical Education

4910/8916 Laboratory Methods in Exercise Science (6) This course will provide students with an opportunity to achieve competency in operating laboratory procedures and data analysis used in biomechanics and exercise physiology laboratories. Students will gain an understanding of the results of the tests administered, and set up effective prescription strategies based upon those results. Prereq: Permission of instructor.

5450/8586 Behavioral Aspects of Coaching (3) This course will provide graduate students in health education with an understanding of the coaching process. The course will focus on the factors that influence the coach's ability to select and present skills, abilities, and personality of the elementary school, junior high school, high school, and college athletes. Such personal factors as body build, ability, intelligence, motivation, emotions, conflict management, mole, sportsmanship, and leadership will be discussed in relation to the athlete. Practice factors that influence the athlete will be studied from a coaching standpoint. Research in sport will be reviewed. Prereq: Graduate standing.

4930/8936 Measurement and Evaluation of Physical Education (3) Analysis of tests, measurement apparatus and testing procedures used in physical education. Includes a review of basic descriptive statistics. Practical experience in test administration is provided. Prereq: For 4930, junior standing and physical education major. Prereq: 4940/8946 Physiology of Exercise (3) A study of the major physiological systems of the human body and their responses to exercise. Prereq: Permission of instructor.

4940/8946 Topics in Sports Medicine (3) This course covers selected topics regarding the science and medicine of sports participation. Some areas to be covered include pharmacology as it relates to performance enhance-

ments, orthopedic aspects, prevention and rehabilitation of sports injuries, legal aspects and health agencies.

8730 Thallometry (3) An examination of theory and research relevant to problems in exercise with the use of thallometry as an example. Prereq: Graduate standing.

8560 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 standing.

6590 Health Education Practicum (1-3) This course offers graduate students in health education an opportunity to gain practical experience through the design and implementation of health education programs in local schools, businesses, hospitals/clinics, voluntary health agencies, or governmental health agencies. Prereq: 21 credit hours in health education (graduate or undergraduate).

6790 Improvement of Instruction in Physical Education (3) An examination and discussion of current issues in content, methods, and materials within physical education. Emphasized is the improvement of each individual’s teaching in the physical education setting.

6840 Motor Learning and Performance (3) A study of conditions and factors which influence the learning and performance of motor skills. Prereq: Permission of instructor.

6850 Kinesiological Analysis of Motor Skills (3) An investigation of the biomechanical bases of motor skills. Prereq: Permission of instructor.

8250 Human Sexuality (3) A course is aimed at providing an overview of the psychological, sociological, and physiological changes in human sexuality. Prereq: Graduate standing.

8280 Curriculum in Physical Education (3) A study of the theoretical foundations of curriculum development and related educational problems. Prereq: Permission of instructor.

8300 Analysis of Research and Literature in HPER for the purpose of orienting the student to the nature 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 advisor. Prereq: Permission.
1640/5646 Trends and Issues in T.R. (3) This course covers selected topics reflecting current trends and issues in the field of therapeutic recreation. Prereq: RL 3300, RL 3350, RL 4300.

8140 Outdoor Recreation Resource Planning (3) An in-depth view of outdoor recreation resource planning, policy formulation, administration, and significant current problems. Specific attention will be focused on statewide planning, recreation values, cultural preferences, demand, financing, decision-making, and public policy. Prereq: Graduate standing, at least 6 hours undergraduate preparation courses, or permission of the instructor.

8540 Clinical Internship in Therapeutic Recreation (6) This course is structured as a full-time (40 hrs/wk/15 hrs/week) fieldwork experience in Therapeutic Recreation. The student is subject to 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 seen will vary with each individual student's professional objectives. Prereq: At least three upper division undergraduate and/or three graduate hours in Therapeutic Recreation and permission of instructor.

HISTORY

PROFESSORS: Carrigan, Dalstrom, Geever, Overfield, Petrowski, Pollak, Pratt, St John, Tate, Thompson

ASSOCIATE PROFESSORS: Gaeddert, Simmons

Master of Arts in History

Admission to the Program

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

2. Students may be admitted provisionally who have less than 21 (twenty-one) hours of undergraduate preparation, or who have not achieved a 2.75 overall grade average. They must take Hist 3930 on a non-graduate credit basis. Interpretation of this requirement rests with the Graduate Program Committee of the Department.

3. An incoming student, not having Historical Research (Hist 3930) or its equivalent, normally must take the Hist 3930 on a non-graduate credit basis. Interpretation of this requirement rests with the Graduate Program Committee of the Department.

4. As stipulated by the Graduate College, students must take the general aptitude test of the Graduate Record Exam during the first semester of enrollment.

M.A. Program with Thesis (Option I)

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

1. 24 semester hours of approved graduate courses in History, 9 of which must be in courses open only for graduate registration, 14-15 seminars. The other 15 hours may be either lecture courses or courses numbered 8010 and no more than 6 hours of credit may be taken by a student under this number. A balance of 15 and 9 must be maintained between major and minor areas of study.

2. 15 semester hours of approved graduate courses in History including 9 hours of seminars, plus 9 approved hours of graduate coursework in a related field, such 9 hours constituting a graduate minor. The minor department must be consulted to determine the student's eligibility to do graduate work in that department.

3. In either program of study, a thesis, not to exceed 6 semester hours in independent study credit, is required under the direction of the major advisor.

M.A. Program without Thesis (Option II)

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six hours of coursework, at least half of which must be earned in courses open only to graduate students (9-10 credits). No more than six (6) hours of credit may be taken by a student under courses numbered 8010.

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

3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some other field, such minor to consist of no less than 6 hours and no more than nine graduate hours. Permission to take a six hour minor may be gained by the advisor's permission, and the approval of the Graduate Program Committee.

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

5. When the student initially enrolls, he/she shall, in conference with the chairperson of the Graduate Program Committee of the Department of History, choose his/her advisor. The chairperson of the Graduate Program Committee shall, after consultation with the student and his/her advisor, recommend an advisory committee to the Dean for Graduate Studies and Research for official approval. The advisory committee shall be composed of members of the faculty appropriate to the student's program and academic interests. The chairperson of the advisory committee (or designee) will be authorized to remove a minor from the field of the major field, if such field is selected) must be members of the Graduate Faculty.

PROCEDURE FOR COMPREHENSIVE EXAMINATION FOR NON-THESIS MASTER OF ARTS CANDIDATES IN HISTORY

1. Early in the semester the candidate expects to take the degree, he/she must make arrangements with his/her sponsor to take the comprehensive written examination. The examination will be given three times during the year: during the eleventh week of the fall semester, during the eleventh week of the spring semester, and during the second week of the first summer session.

2. The examination in History will consist of two parts, one devoted to the major area, and one to the minor area of study.

a. If the major area of study is European/English history, the examination will be comprehensive, taking into consideration the student's program of study. The non-European/English portion of the examination will be over the specific courses taken for the minor. The major area examination will be of six hours duration (two three-hour segments), and the minor area examination will be of three hours duration.

b. If the major area of study is American history, the examination will be comprehensive, divided into two three-hour segments, with the breaking point for the two segments normally following the breaking point of the American history survey (History 1110-1120) in the minor area examination will be of six hours duration (two three-hour segments), and the minor area examination will be of three hours duration.

c. If the candidate offers an outside minor, the minor department and advisor will be responsible for the minor examination.

3. The reading committee will consist of the sponsor and one other graduate faculty member expert in the major area. The readers for the minor area will be the instructors of the courses offered in the minor area. In the major area, the selection of the second reader shall be made by the sponsor and candidate. Both readers of the major and all readers of the minor area must agree that the candidate has passed the examinations for which they are responsible. In the event of disagreement, a third reader may be consulted as a mediator, and the result his/her supports will be the result of the examination.

4. The sponsor and the reading committee will select the items to appear on the examination, and determine the order of essays to be written. The candidate will have a choice of questions on each portion of the examination.

5. Once the examination has been administered and graded, the secretary has forms to be filled out by the sponsor, signed by the Graduate Program Committee chairperson, and sent to the Dean for Graduate Studies and Research, certifying the candidate for conferment of the degree.

6. In the event of failure of either all or a portion of the comprehensive examination at least four months prior to the examination in whole or in part may be retaken. Any reexamination must occur within twelve (12) months following the initial failure.

7. In no event shall a student be permitted to take all or a portion of the comprehensive examination more than twice.

8. In planning for a comprehensive examination (or reexamination), students should be cognizant of the six-year limit for completion of degrees as set forth by the College for Graduate Studies and Research.

3130/1315 American Colonial History (3) A study of the background settlement, and development of the Early American. Prereq: For 3130, junior standing or permission of the instructor.

3160/1160 The American Frontier: 1800-1900 (3) The American frontier: West from the Rocky Mountain Fur Trade days to the disappearance of the frontier around 1900. Prereq: For 1160, junior standing or permission of the instructor.

3330/3335 American Diplomatic History (3) A history of the foreign relations of the United States. Prereq: For 3330, junior standing or permission of the instructor.
3440/8445 History of The South (3) Economic, social, and political development of the southern region of the United States. Prereq: For 3440, Junior standing or permission of the instructor.
8535 Medieval Europe (3) An examination in medieval European history with emphasis upon social and economic developments. Prereq: None.
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 armistice with the United States as a world power. Prereq: Junior standing or permission.
3910/8915 Topics in History (3) A pro-seminar on selected topics based on a consideration of interpretive historical writings and/or source material. Prereq: Permission of the instructor.
4060/8066 History of Women in the United States (3) This course discusses the history of women in nineteenth and twentieth 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 women's and feminist concerns of the 1970's. Prereq: 3120/4120.
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 standing or permission of the instructor.
4240/8246 Twentieth Century America Since 1932 (3) A study of the history of the United States from the end of the nineteenth century to the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 4240, Junior standing or permission of the instructor.
4280/8286 Twentieth Century America Since 1945 (3) A study of the history of the United States since the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 4280, Junior standing or permission of the instructor.
4320/8326 Constitutional History of The United States Since 1789 (3) Includes the study of the development of the Constitution, the Bill of Rights, and the selection of the first president. Prereq: For 4320, Junior standing or permission of the instructor.
4340/8346 Constitutional History of The United States Since 1860 (3) History of the United States since 1860. Prereq: For 4340, Junior standing or permission of the instructor.
4400/8406 History of North American Indians (3) A survey of the history of representatives of the American native people. Prereq: For 4400, Junior standing or permission of the instructor.
4430/8436 American Urban History (3) Historical survey of urban development. Prereq: For 4430, Junior standing or permission of the instructor.
4520/8526 Intellectual History of Modern Europe From The Renaissance to The French Revolution (3) A course dealing with the history of European thought and institutions from the Renaissance to the French Revolution. Prereq: For 4520, Junior standing or permission of the instructor.
4530/8536 The Age of the Renaissance- Reformation (3) A study of the intellectual movements which led to the Reformation and its impact on European religious and political life, and its development into the modern world. Prereq: For 4530, Junior standing or permission of the instructor.
4550/8556 The Age of Enlightenment 1789-1815 (3) An examination of the period before the French Revolution and the Napoleonic era with particular attention to the development of democratic practice concurrently with the development of modern authoritarianism. Prereq: For 4550, Junior standing or permission of the instructor.
4570/8576 European retrospect (15/18-19) (3) A study of reform and reaction which resulted in the Balkanization of Europe. Prereq: None.
4610/8616 Tudor and Stuart (1527-1689) England (3) A study of England under the Tudors when the English people were confronted by an emerging national consciousness and experienced a golden age, and the Stuarts continued modernization and formulated the new institutions that were the basis of our modern world. Prereq: None.
4620/8626 English History: From Empire to Welfare State (3) A study of the change and development of Great Britain from the late 18th century to 1918. Prereq: None.
4770/8776 Europe in Crisis 1890-1932 (3) A course dealing with the changing political and social forces which led to the 1930's. Prereq: For 4770, Junior standing or permission of the instructor.
4780/8786 Europe in The Global Age: 1933 to The Present (3) A study of the ever increasing tensions between the Fascist and Communist dictatorships and the western democracies, World War II, the ideological struggle for power and the emergence of the balance of terror. Prereq: For 4780, Junior standing or permission of the instructor.
8010 Advanced Research Project in History (1-5) Special problems in advanced research in history, arranged individually with graduate students. There is a 6-hour limit for both the thesis and non-thesis programs. Prereq: 15 graduate hours (including 2 seminars). Permission of the instructor.
8990 Thesis (1-6) Thesis research project written under supervision of an advisor. Prereq: None.
9100 Seminar in History Readings and research in selected topics of history.

MATHEMATICS

PROFESSORS: Buchalter, Downey, Downing, Gesaman, Konvalina, Maloney, Stephens
ASSOCIATE PROFESSORS: Heidel, Willman

Admission Requirements: Admission to a degree program is based on evidence of mathematical ability. An applicant is usually expected to have completed fifteen acceptable credits in undergraduate mathematics beyond Calculus, and to have an overall average of B or better during the last two undergraduate years. In some cases where the above criterion is not met, a provisional admission may be extended to the applicant who is willing to take some preliminary coursework that will not apply toward the degree.

Master of Science

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

a. Earn a total of 36 acceptable credits, at least 24 of which must be in Mathematics. Prereq: For 4140, Junior standing or permission of the instructor.

b. Complete a thesis which carry a number of 8006 or above, with a final grade of A or B, and at least 15 credit hours must have a last digit of 0. An exception is that 8020 and 8040 may not be used for the Master of Science degree in Mathematics.

c. A student may average in all of his or her work with no grade lower than a "C," and no more than two grades of "C-" or "C-".

d. Pass a written comprehensive examination.

e. If a student wishes, they may take up to 12 hours of graduate work in Physics or Computer Science, but these are not specified as theoretical courses that are taken as part of a degree program and must be explicitly approved by the Graduate Program Committee.

Master of Arts

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

a. Earn a total of 30 credits in Mathematics.

b. Complete a thesis not to exceed 6 semester hours, which may be applied toward the 30-hour total.

c. Complete the requirements of b, c, and d above.

Master of Arts for Teachers of Mathematics (M.A.T.)

This is a specialized degree designed to provide secondary school mathematics teachers with more depth of mathematics combined with a core of relevant professional courses in education. It is approved by a way for certified teachers to receive some graduate credits while fulfilling requirements for certification in mathematics as an additional field.
Admission Requirements for M.A.T. degree:
A student meeting the following conditions will be admitted to the M.A.T. program:
1. Has state certification for teaching secondary school mathematics.
2. Has maintained at least a B average in previous mathematics courses including two courses beyond elementary calculus.
3. Has taken CS 1310 or equivalent.

The above conditions are considered normative and a student not meeting them may be admitted to the program only as a result of special action by the M.A.T. Program Committee. Students who have a bachelor’s degree certifying they teach in grades 1-8 must demonstrate to the satisfaction of the Committee that they have had the equivalent of at least two years of mathematics at the college level. Their credentials will be admitted provisionally to the M.A.T. Program upon completion of Math 1950, Math 1960, Math 1970 and Math 2030 with a GPA of 3.00 or better.

Plans of study available with the M.A.T. degree:
Three different plans of study are available leading to the M.A.T. degree. All of them require 36 semester hours of graduate credit, with at least 24 of these courses offered by the Department of Mathematics/Computer Science. The three plans are: Statistics, Computer Science and Mathematics. The following are basic requirements for each plan:

1. Take courses numbered 3100/8105, 3120/8125, 3150/8150, 3520/8525, 3700/8700.
2. Required Education courses for all plans: Three courses for graduate study only, nine semester hours credit, in Teacher Education. One course must be included on the use of microcomputers in the classroom, with the remaining two courses to be chosen with written approval of the advisor.
3. Elective for all plans: One course for graduate study only in Mathematics or Education to be chosen with written approval of advisor.

Remaining 9 semester hours to be chosen according to one of the following:
(a) Statistics Option: Stat 3805, Stat 8015, M 8505 (Selected Topics Statistical Research for Math Teachers).
(b) Mathematics Option: Student selects 3 courses in Mathematics 8000 level or above.
(c) Computer Science Option: Student selects 3 courses in Computer Science at the 8000 level or above.

Other Requirements for M.A.T. degree: A student must maintain a B average in all coursework with no grade below C- and no more than one C or C- in addition, all students will be required to pass a comprehensive exam covering the courses in the program. Specific details for this exam may be obtained from the advisor.

Computer Science

3220/8225 Data Structures and Implementation (3) Principles and techniques of the design and implementation of information systems. Hardware and software selection and evaluation. Prereq: CS 3310.

3230/8235 Programming Methodology (3) An introduction to software production, including correctness, efficiency, and psychological factors of programs and programming. Prereq: Math/CS 2030 (formerly 2350).


3450/8455 Data Base Management Systems (3) Basic concept of generalized database management systems (DBMS); the relational, hierarchical, and network DBMS the terminus on which they are implemented; introduction to database design. Prereq: Math/CS 2030 (formerly 2350).

3470/8766 Stochastic Modelling (3) Examination and construction of various probabilistic models including Markov chains, Poisson Processes, renewal theory and queueing systems. Same as Math 3766. Prereq: Math 3470/8745.

4220/8226 Programming Languages (3) An introduction to programming languages. Global properties of algorithmic languages including scope of declaration, storage allocation, grouping of statements, binding time. Subroutines, currying and lambda calculus, functional programming. Prereq: CS 2620 (formerly CS 2310) and 3220.

4330/8335 Linear Programming (3) Theory of the simplex method, duality, and obtaining an initial basic feasible solution. The dual and revised simplex methods. Parametric Linear Programming, sensitivity analysis, modeling and implementing linear programs. Same as Math 4330. Prereq: Math/CS 3050 or one of Math 1620, 1820, or 2620.


4500/8505 Operating Systems (3) Special attention to operating systems mathematics courses such as computer architecture, input-output facilities, system organization and reconfiguration. Description and implementation techniques. Features needed for multiprogramming, multiprocessor and real-time systems. Prereq: CS 2620 (formerly CS 2350) and Math/CS 2030 (formerly CS 2310).


4550/8556 Advanced Topics in Operating Systems (3) Hardware and software selection and evaluation. Operating systems organization. System structuring and implementation. Special topics in computer architecture, operating systems and related topics. Prereq: CS 4500.


4890 Advanced Topics in Optimization (3) Topics selected from integer programming, dynamic programming, non-linear programming, variational methods and control. Prereq: Math/CS 4310/8316.

5150/8156 Data Base Design and Organization (3) Introduction to object-oriented computer database systems. How these objectives can be met by the database management systems and design, and how these designs are physically represented. Prereq: CS 3250 (CS 3450) recommended.

5900 Computer Organization (5) An introduction to the computer's role in the automation of information systems, including techniques for organizing, storing, matching, and retrieving structured and unstructured information on digital computers. Prereq: CS 3310 (CS 8340 recommended).


8900 Independent Graduate 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, and then approved in writing by the Chairperson. Permission of instructor and graduate classification.

Mathematics

3220/8225 Introduction to Analysis (3) Provides a theoretical foundation for calculus based on elementary calculus. Topics include the real number system, topology of the real line, limits, func-
90 DEGREE REQUIREMENTS


8810 Advanced Numerical Methods II (3) Topics selected from integer programming methods, optimization under uncertainty, and unconstrained search procedures, advanced dynamic programming, variational methods and optimal control. May be repeated for credit with permission of Graduate Advisor. Same as CS 8810. Prereq: Math/CS 8810.

970 Independent Graduate Studies (3) Under this number a graduate student may pursue studies in an area not normally available to him in a formal course. The topics studies will be a graduate area in mathematics not available to the instructor. Prereq: Permission of Graduate Advisor. Same as CS 970.

9890 Graduate Seminar (1-3) A graduate seminar in mathematics.

998 Thesis (3-6)

999 Advanced Topics in Applied Mathematics (3) Topics selected from applied algebra, applied linear algebra, coding theory, graph theory, and related fields. May be repeated for credit with permission of the Graduate Advisor. Prereq: Permission of instructor.

9230 Theory of Function of Real Variables (3) Topics selected from measure theory, real function, point set topology, measure and integral theory. Prereq: Math 4610 and Math/CS 4760.

Statistics

3000/8005 Statistical Methods I (3) Distribution, introduction to measures of central tendency and dispersion, population and sample, the normal distribution, interpretation of data. Two populations, introduction to analysis of variance. Statistical packages such as SAS or SPSS will also be utilized in the course.

3010/8015 Statistical Methods II (3) Regression and correlation, analysis of data with covariates, chi-square, analysis of variance, simple and multiple regression, generalized linear models. Prereq: Math 4110 or equivalent. Prereq: Statistics 8000 or equivalent.
MUSIC

PROFESSORS: Low, Peters, Prince, Ruzo, Shraler
ASSOCIATE PROFESSORS: Bales, Ford, Mullen, Saker, T. Todd
ASSISTANT PROFESSORS: McCreary

Entrance Requirements for Admission to the Graduate Program in Music

Applicants must have earned a baccalaureate degree in Music or a recognized institution of higher education. The degree must be from a 3.0 GPA or better (or a 4.0 scale) in all music courses or a 3.0 GPA in all upper division music courses. If the applicant does not meet either of the 3.0 GPA requirements, s/he will not be admitted into the program. An applicant meeting the GPA requirements must take the Music Department Diagnostic Exam before s/he can be admitted and may need to complete undergraduate courses to satisfy any deficiencies that the diagnostic exam might indicate.

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 PROGRAM PERFORMANCE OF STUDY

Applied Music*.................................6 hours
Music Bibliography..........................3
Analytical Techniques.......................3
Recital.........................................3
Semitone.....................................3
Special Topics or Elective**..............12

Total Semester Hours......................30-36

*Conducting Practice may be substituted here for Conducting Performance degree program.
**A portion or all of the above may be in a related subject field.

REQUIRED MUSIC EDUCATION PROGRAM OF STUDY

Research in Music Education.............3 hours
Philosophical and Sociological Aspects of Music Education**........3
Psychological and Historical Aspects of Music Education**........3
Music History..................................3
Music Theory..................................3
Analytical Techniques.......................3
Elective in Music**............................3
Option A: Thesis................................
Option B: Additional Hours***............12

Total Semester Hours......................30-36

*Upon petition to the Graduate Committee in Music one pedagogy course may be substituted for only one of these courses.
**To be selected from the following: music pedagogy, psychology or other.
***A portion or all of these hours may be elected in related subject fields outside of music.

Music

8006 Special Studies In Music (1-3) Seminars or workshops in Theory, History, 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 standing, approval of instructor.

8101 The Arts and the Executive (3) The course will provide the graduate student with an understanding of the role and function of the arts in the business community. Cross-listed with BI 8880. Prereq: Graduate admission and permission of the instructor.

4400/4606 Advanced Composition (3) Designed to help students become more familiar with Theory, the craft of creating music. Emphasis on new trends including indeterminacy, electronic music, total organization, computer music, minimalism, ambient, and biometric. Prereq: Music 3400 or permission of instructor.

4400/4846 Twentieth Century Styles (3) This course will study 20th Century music through analysis and practical application of the various styles, techniques, and individual stylistic qualities that contribute to the identification of individual styles and "styles schools." It is designed for those students who are unfamiliar with the music of the early part of the twentieth century. Prereq: Music 2420 or permission of the instructor.

4500/4906 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 of selected excerpts with special attention using advanced electronic devices for the orchestra. The study of scores, especially those of the 20th Century, must have a cumulative aspect. Prereq: Music 2430 or 2440 or permission of the instructor, and graduate standing.

4530/4556 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: Music 2570, 2420, 2440. Junior standing in applied voice, or by permission of the instructor.

5400/5456 Renaissance Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive study of survey of Music literature c. 1500-1600. Prereq: Music History 2570, 2560, 2570, and graduate standing.

5450/5556 Baroque Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature from 1600-1700. Prereq: Music History 2550, 2560, 2570, and graduate standing.

5600/5656 Classical Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1750-1815. Prereq: Music 2570, 2550, 2560, and graduate standing.

5700/5756 Romantic Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive study of Music literature c. 1815-1870. Prereq: Music History 2570, 2550, 2560, and graduate standing.

5780/5856 Music in the 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 will be to provide the student with a broad overview with special attention given to composers and individual works which typify a style or form. Listening assignments will be an integral part of the course, and attendance at live, film and/or television performances will supplement the lectures, discussions, and readings. Prereq: Music 2560.

5800/5906 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. Prerequisites of instruction, basic principles of technique and materials used in teaching piano and their application to private pedagogy. Prereq: Music 2560.

5900/5956 Voice Pedagogy (3) This course is designed for voice majors and private music teachers. Emphasis will be given to voice production, the development of art song in Europe and America. Emphasis will be given to German and French song literature and their influence in English and American song. Prereq: Junior-level voice standing or permission of instructor for undergraduate level. Graduate voice standing or permission of Instructor for graduate level.

8200/8356 Applied Music (1 or 3) Elective credit for graduate students in the music education program. Intended for students working on a masters degree in music education with emphasis in fearless music. Prereq: Music 2570, 3060, and graduate standing.

8210-8270 Choral Literature (3) Intended for upper level students in the undergraduate through twelfth grade music education track and for students working on a masters degree in music education with emphasis in fearles music. Prereq: Music 2570, 3060, and graduate standing.

8280-8376 Keyboard Literature (3) Survey and study of major piano repertoire from the Baroque keyboard composers to the 20th-century composers. Includes many keyboard concertos with orchestra. Prereq: Permission of instructor.

7000/7056 Voice Literature (3) This course is designed for study of the development of art song literature in Europe and America. Emphasis will be given to German and French song literature and their influence in English and American song. Prereq: Junior-level voice standing or permission of instructor for undergraduate level. Graduate voice standing or permission of Instructor for graduate level.

8200-8299 Applied Music (1 or 3) Elective credit for graduate students in the music education program. Intended for students working on a masters degree in music education with emphasis in fearles music. Prereq: Music 2570, 3060, and graduate standing.

8210 Piano (1-3)
8220 Voice (1-3)
8230 Violin (1-3)
8240 Viola (1-3)
8250 Violoncello (1-3)
8260 Bass Viol (1-3)
8270 Flute (1-3)
8280 Oboe (1-3)
8290 Clarinet (1-3)
8300 Bassoon (1-3)
8310 Saxophone (1-3)
8320 Trumpet (1-3)
8330 French Horn (1-3)
8340 Baritone Horn (1-3)
8350 Trombone (1-3)
8360 Tubas (1-3)

MUSIC 93

other voice teachers. Prereq: Junior-level voice standing or permission of instructor for undergraduate level. Graduate voice standing or permission of Instructor for graduate level.

4670/4856 Piano Pedagogy II (3) This course is designed for piano majors and private music teachers in "how to teach piano," from the beginning steps through elementary and advanced levels. Procedures of instruction, basic principles of technique and materials used in teaching piano and their application to private pedagogy. Prereq: Music 4600/4850.

7160/7176 Acting for Music Theater (2) This course is a study of theatrical and practical approaches to developing the "singing actor." Prereq: Music or drama major. Permission of instructor.
subject for analysis, but emphasis will be on tonal music. Prepr: A "B" average in music 3460 and Music 4440 or their respective equivalents.

8740 Advanced Counterpoint (3) Advanced counterpoint will deal with topics that are frequently neglected in undergraduate counterpoint classes because of lack of time or student background. Emphasis on masterpieces of the art of counterpoint will be made through study and analysis of a variety of styles of music presented and students will become familiar with the materials and performances in all style periods. Prepr: Students will have graduate standing and should have completed Music 3640 or its equivalent before enrolling in the course.

8510 Performance Practice (3) This course includes a study of the notation, performance practice, and historical background of music and music education for the graduate student and instructor. Prepr: Permission.

8520 Music Bibliography (3) This course includes a study of music reference and research materials. Library procedures and tools of investigative studies are treated, culminating in a research project. Prepr: Graduate level standing and permission.

8520 Seminar-Workshops in Music Education (3) Seminar and workshops in music and music education for the graduate student and instructor. Prepr: Permission.

8630 Research in Music Education (3) A study of research techniques and literature in music education and music education research through attention to all phases of research and evaluating music education research and doing independent work in the area. Prepr: Graduate level standing and permission.

8640 Philosophical and Sociological Aspects of Music Education (3) A study of philosophical and sociological grounds of music education through attention to all phases of music education and the current sociological trends. Prepr: Graduate standing.

8650 Psychological and Historical Aspects of Music Education (3) A study of educational and historical aspects of music education through attention to all phases of music education and the current psychological theories of music and learning theory and relevant reading in the history of music education. Prepr: Graduate Standing.

8660 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. Prepr: It is expected that students will be enrolled in a graduate college and have permission of the instructor.

8700 Conducting Practicum (3) Private instruction will be offered in conducting which will include various disciplines in music and their relationship and application to the art of conducting. This course may be repeated for credit. Prepr: Students with a choral emphasis: Music 3640 and 5670. Students with an instrumental emphasis: Music 3630 and 8630.

8750 Advanced Instrumental Conducting (3) Study of advanced conducting with an emphasis on a variety of methods used in band and orchestra literature and theory for freshmen, sophomore, junior, senior, and graduate level. Prepr: It is expected that students will be enrolled in a graduate college and have permission of the instructor.

8760 Advanced Choral Conducting (3) Advanced conducting techniques are used in the performance of major contrapuntal works in all style periods. Prepr: Students must have a choral emphasis: Music 3640 and 5670. Prepr: It is expected that students will be enrolled in a graduate college and have permission.

9870 Treatise (3) Preparation of a written project appropriate for graduate level standing and permission. Must be taken with or before Music 8980 Recital. Prepr: A written proposal for the work to be presented must be approved by the appropriate departmental committee.

8980 Master's Project (3) This course involves the selection, preparation and public performance of a full recital in the student's major applied area. The recital will examine the student's knowledge in a variety of styles and include advanced technical and interpretative demands. The course also includes a written project on the music performed at the recital. The recital will be directed toward the objectives of reading and evaluating music education research and doing independent work in the area. Prepr: Graduate level standing and permission.

4030/8036 The Presidency (3) The rise of the presidency from the Federalist period to the modern presidency and how the president uses this power and prestige to influence Congress, the courts, and the public. Prepr: For 4030, junior standing. Prepr: For 8036, graduate level, including 8000 (Research Methods). The student will select courses from the Political Science, Public Affairs, and Business Administration departments, receiving no more than one C or C- in any discipline. Prepr: A "B" average in Music 8000 (Research Methods). There will be written comprehensive examinations in the two emphasized fields and an oral defense of the thesis.

Master of Science

Degree Requirements: This advanced non-thesis program is specifically designed to enhance career goals in the public service, education, and business fields. Thirty-six hours of coursework are required with a minimum of eighteen hours at the 6000 level, including 8000 (Research Methods). Students must select courses from the Political Science, Public Affairs, and Business Administration departments, receiving no more than one C or C- in any discipline. Students must maintain a B (3.0) average in their coursework, receiving no more than one C or C-. The thesis is expected to be a major piece of scholarship. From the four subfields of Political Science, Public Affairs, and Business Administration, students must select one, and the student must pass the comprehensive examination in the subfield. Prepr: A "B" average in Music 8000 (Research Methods).
4280/8286 Inter-American Politics (3) Analysis of the role of Latin American states in the international political arena. Emphasis upon developments and their implications for international law. Prereq: of international politics through the study of the inter-American and global political systems. The regional institutional and ideological environment, power relations, policies, and contemporary problems. Prereq: For 4280, junior standing.

4310/8316 Political Philosophy I (3) Textual analysis of leading works of classical political philosophy. Plato and Aristotle. Prereq: For 4310, junior standing.


4330/8336 Political Philosophy III (3) Textual analysis of leading works of late modern political philosophy. Burke, Mill, Marx. Prereq: For 4330, junior standing.

4340/8346 Democracy (3) A basic study of theory, practice and practitioners of political democracy. Its roots, development, present application, and problems and future. Prereq: For 4340, junior standing.

4360/8366 Dictatorship (3) A basic study of theory, practice and practitioners of political dictatorship, its roots, development, major 20th century applications and lasting effects. Prereq: For 4360, junior standing.

4380/8386 Communism (3) The Marxist message, its use as an impetus to political power, its world-wide extension, and the threat it poses for the world order. Prereq: Permission of graduate advisor. Prereq: For 4380, junior standing.

4500/8500 Government and Politics of Great Britain (3) A comprehensive study of the British political system and government. Emphasis will be focused on the formal institutions and customs and practices of the British political system. Prereq: For 4500, junior standing.

8526 Politics in France (3) An examination of the French political heritage, contemporary political institutions and problems, and political and policy responses to these problems. Prereq: Graduate student.

9200/9266 Topics in Political Science (3) A pre-seminar on selected topics based upon analysis of the political science literature and/or primary source materials. Prereq: For 4920, junior standing or permission of the Instructor.

8000 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 the graduate advisor. (Also listed under public administration)

8040 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 advisor.

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, attorneys, and officials of the national, state, and local level. Emphasis will be varied from semester to semester in accordance with the background and interests of the students enrolled. Prereq: Three semester hours in public law or permission of graduate advisor.

8200 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 the political system. Prereq: Permission of graduate advisor.

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 advisor.

8500 Seminar in Comparative Politics (3) An examination of the theories and methods of analysis of the comparative political systems. Prereq: Permission of graduate advisor.

8800 Independent Study in Topics of Urbanism (1-9) Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. Prereq: Undergraduate major in one of the social sciences. (Also listed under urbanism, economics, geography, and sociology.)

8900 Readings in Political Science (3) Special topics reading in political science. Prereq: A graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is judged by the political science department to be capable of pursuing a highly independent course of study. Prereq: Permission of graduate advisor.

8990 Thesis (3-6) A research project, written under the supervision of a faculty member 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.

8990 Thesis (3-6) A research project, written under the supervision of a faculty member 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.


9040 Principles of Auditing (3) Principles of auditing, internal controls, and financial statement analysis. Prereq: For 9040, junior standing.

9100 Corporate Finance (3) Analysis of the financing of business enterprises, both domestically and internationally. Prereq: Math 2400 or permission of instructor.

9120 Federal Taxation of Corporations (3) Taxation of corporate income, including state and local taxation. Prereq: Math 2400 or permission of instructor.


9200 Federal Taxation of Partnerships & Subchapter S Corporations (3) Taxation of partnerships and subchapter S corporations. Prereq: For 9200, junior standing.

9250 Seminar in Accounting (3) Seminar in accounting. Prereq: For 9250, junior standing.

9270 Federal Taxation of Business Entities (3) Taxation of business entities, including proprietorships, partnerships, and S corporations. Prereq: For 9270, junior standing.

9900 Master of Professional Accounting* (36 total semester hours) Required Accounting Courses (9 hrs.)

Accounting Electives (9 hrs.)

Accounting Electives (9 hrs.)

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING

PROFESSIONAL ACCOUNTING
Required Tool Courses (12 hrs.)

BSAD 8000 Quantitative Analysis
BSAD 8100 Managerial Economics
BSAD 8500 Financial Management
BSAD 8800 Policy, Planning & Strategy

Other Electives (6 hrs.)

1. A maximum of 6 hours of "B" level courses may be included in the graduate program of study.
2. All Foundation courses should be completed with a minimum grade of "C" before registering for graduate courses. Exceptions should be approved by the MPA Director.
3. Students are subject to all policies and procedures of the Graduate College as stated in the Graduate Catalog.
4. Students must earn a minimum grade of "B" in BSAD 8800 to successfully complete the course as a graduation requirement.

PSYCHOLOGY

PROFESSORS: Becker, E., Brown, Dellenbacher, Hamrn, Hendricks, LaVoie, Millimet, Newton, Pedersen, W., R., Woody

ASSOCIATE PROFESSORS: Finkler, French, Hansen, Harrison, G. Simpson, Thomas

ASSISTANT PROFESSORS: Celler

ADJUNCT FACULTY: Daly, Greenberg, Jeske, Kesler, Rosenberg

COURTESY FACULTY: Angle, Gard, Horney, Leblowitz, Madison, McKinney, Robinson, Rodriguez-Sieira, Strider

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing. Graduate Record Examination scores on the Verbal, Quantitative, and Analytical sections are required for admission. An incomplete grade in one section will not be made without those scores. The Advanced GRE score in Psychology is highly recommended, although this test score is not required for admission to the Master's program. The Advanced GRE in Psychology is required for passing the comprehensive examination and may be achieved at any time (either before or after admission).

The evaluation of admission for all students applying to the Master's program is based primarily on a numerical composite score obtained by combining the last two years of the overall undergraduate GPA and any graduate coursework completed since graduation with the average of the three subtests of the GRE. Students may repeat sections of the GRE to improve a composite score.

The GRE is not required. However, applicants who believe that such letters would provide information that is important and not clearly communicated in other documents are encouraged to have one or more letters submitted in their behalf. Three letters of recommendation are required of those applicants who are seeking a departmental graduate assistantship or have completed a M.A. program. A score of 600 on the Advanced GRE is required for passing the comprehensive examination and may be achieved at any time (either before or after admission).

The evaluation of admission for all students applying to the Master's program is based primarily on a numerical composite score obtained by combining the last two years of the overall undergraduate GPA and any graduate coursework completed since graduation with the average of the three subtests of the GRE. Students may repeat sections of the GRE to improve a composite score.

The GRE is not required. However, applicants who believe that such letters would provide information that is important and not clearly communicated in other documents are encouraged to have one or more letters submitted in their behalf. Three letters of recommendation are required of those applicants who are seeking a departmental graduate assistantship or have completed a M.A. program. A score of 600 on the Advanced GRE is required for passing the comprehensive examination and may be achieved at any time (either before or after admission).
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 advisor and the department. To meet the minimum 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 coursework in psychology. The M.S. degree has the same proseminar requirement as the M.A., and all core prerequisite courses are the same in both degree programs, as well as the requirement of Psychology 8000.

Required courses additional to the core curriculum may be designated by the department. This will ordinarily be up to 3 hours of practicum credit. Final determination of a student's plan of study always resides with the advisor 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 psychology. Students may be considered for admission to a doctoral program if they succeeded in their previous program or are doing excellent work toward their Masters degree which includes a demonstration of research skills, preferably in the form of a defended thesis. 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

Doctoral students in this program are required to complete the entire proseminar series of eight courses as outlined above or their equivalent if the student has completed graduate coursework at another school. In addition, the following courses are required: Theory of Measurement and Design, Multivariate Statistical Analysis, Industrial Motivation and Morale, Industrial Training and Development, Criterion Development and Performance Appraisal, Personnel Selection, Practices in Organizational Behavior, and Dissertation. The remaining hours of coursework are determined by the student and the supervisory committee.

Experimental Child Psychology

Doctoral students in this program are required to complete the entire proseminar series of eight courses as outlined above or their equivalent if the student has completed graduate coursework at another school. In addition, the following courses are required: Animal Behavior, Neuroanatomy, Sensation and Developmental Psychobiology, 9 hours of biological science, Dissertation. The remaining hours of coursework are determined by the student and the supervisory committee.

Developmental Psychology

Doctoral students in this program are required to complete the entire proseminar series of eight courses as outlined above or their equivalent if the student has completed graduate coursework at another school. In addition, the following courses are required: Animal Behavior, Neuroanatomy, Sensation and Developmental Psychobiology, 9 hours of biological science, Dissertation. The remaining hours of coursework 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 by the evaluation of official transcripts presented in person or by mail prior to registration.
2. Registration after consultation with advisors in major and minor departments.
3. Appointment by the UNL Graduate College 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 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 3 years.
8. Filing of an application for the degree at the Registration and Records Office, Information Window, 208 Administration Building at UNL. 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 examination at least three weeks prior to the date of that examination.
11. Passing of any required final oral examination.
12. Deposition 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 the student, to the UNL Director of University Libraries and the UNL Committee 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. The application should include official transcripts of all previous college work, scores for the Graduate Record Examination, Aptitude Test, a vita, and three letters of recommendation. Students who have not been admitted to Graduate Studies previously must apply to the Director of Admissions, also. Applications must be completed by Feb. 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 Masters degree is required for the recommendation. Fifteen hours of acceptable coursework study with the Graduate Office will be required before students may enroll in the coursework. Students will arrange their programs according to the subject matter areas below. In addition to the coursework requirement, the following courses are required for the Master of Science or Master of Arts in Educational Psychology, or its equivalent. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in the 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 by 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 School Psychology Program requires completion of 66 graduate hours including those taken for the Masters degree. The requirements for this degree are the same as 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.D. students can apply for certification as School Psychologists when they have completed all the requirements listed below. Students must complete the required four semesters and Psych 8900, 8910, 8920, and 8930 before they can enroll in Psych 8500, 8540, and 9580. Psych 8530 must be completed before a student can enroll in Psych 9580, but Psych 8560 and 9580 can be taken at the same time.

1. Required Courses in Psychological Methods

Psychology 8316 or 4310 Psychological and Educational Testing
Psychology 8800 The Profession of Psychology
Psychology 8540 Introduction to School Psychology
Psychology 8530 Individual Tests I
Degree Requirements

Psychology 4540 Individual Tests II
Psychology 4550 Advanced Educational Psychology
Psychology 5980 Personality Assessment
Psychology 7450 Topical Seminar in School Psychology
One of the following three courses:
Psychology 4590 Introduction to Therapeutic Techniques with Children
Psychology 4760 Behavior Modification
Psychology 5450 Applied Behavior Analysis
One of the following two courses:
Psychology 4596 (or 4590) Psychology of Exceptional Children
SPEF 4050 (or 4060) Introduction to Special Education

2. Required Professional Education Courses

COON 6830 Counseling Practice
SIBM 8500 Introduction to Educational Administration and Supervision
TED 4940 Emerging School Curriculum

3. Required Supporting Work

One of two electives in basic psychology (outside the student's area of specialization) and/or one course in Special Education, Counseling, Guidance, or other professional education fields other than those specified as requirements. The student must also have had coursework in both learning and developmental psychology.

4. Practicum in School Psychology (Psychology 9980)

The student is required to complete six credit hours of practicum. The general rule is that 50 clock hours are required for each hour of credit. The usual practicum is for a 3-hour practicum, which emphasizes classroom supervision and practice in the application of psychological concepts and principles. At least half of the clock hours must be earned in a school setting. Each practicum is developed to meet the individual student's needs and is approved by the School Psychology Committee before the student is allowed to enroll. Practice must be requested in writing by November 1 and April 1, and arranged by December 1 and May 1 of the academic year.

5. Internship in School Psychology (Psychology 9980)

An internship totaling at least 1350 clock hours must be completed before the student will be recommended for certification as a school psychologist. This will normally be taken after the student has completed all other required courses, including both practicum experiences. The intern must have an endorsement as a psychological assistant. The internship is usually completed on campus in the Omaha area schools by the student, the Omahas area school and the University. The exact details of the internship are worked out by negotiations involving the student, the advisor, and are presentative of the school system involved. Results of these negotiations must be approved by the School Psychology Committee. The student may sign up for three credit hours for each semester of internship. Internships must be requested in writing by November 1 and April 1, and arranged by December 1 and May 1 of the academic year.

Before a student can arrange an internship he/she must receive the psychological assistant certification from the State Department of Education. This certification is necessary for the student to have the legal right to practice psychology in the schools.

Recommendation for Certification

Upon completion of the approved program of studies the student requests review for the School Psychology Committee's recommendation for certification as a school psychologist or psychological assistant. The student is expected to have completed the program satisfactorily (B or better) and maintained the professional standards of school psychology. The committee will be expected to behave in accordance with the ethical guidelines of the American Psychological Association and the National Association of School Psychologists.

1010/1016 History of Psychology (3) A study of the intellectual development of psychology and its relation to external events, emphasizing the period since 1875. Prereq: None.
1011/1016 Experimental 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 aural acoustics. Prereq: Psychology 1010 or permission.
4070/4066 Environmental Psychology (3) An exploration of the historical and contemporary research and theory concerned with higher cognitive processes including concept formation, problem solving, information processing, memory, and symbolic behavior. Prereq: Psychology 3010 or permission.
4250/4256 Limits of Consciousness (3) A study of the origins, development, and nature of human consciousness. Prereq: Psychology 1010 or permission.
4270/4276 Animal Behavior (3) Behavior of animals for the understanding of the psychological variables as perception, learning, memory, and development related to the linguistic variables of sentence structure, meaning, and speech sounds. Prereq: Permission of instructor.
4340/4346 Human Development (3) This course considers significant contributions to intellectual functioning originating from the domain of human development, and nature of developmentally associated with impaired in adaptive behavior. Research is emphasized. Prereq: Psychology 1010 or permission.
4450/4456 Personality Theories (3) A study of the principles of learning and testing in the field of personality. Cross listed with Psychology 5960. Prereq: Psychology 1010 or permission.
5070/5066 Introduction to Behavioral Modification (3) Introduction to the experimental methodology, rationale and research literature of the field of Behavior Modification. Prereq: Psychology 3010 or permission. Prereq: Psychology 1010 or permission.
5200/5206 Psychopathology of Youth (3) A study of the psychological theories, principles, models, and research as they apply to youth, especially focusing on the psychology of exceptionality. The focus is upon teaching/learning in the society and culture. Prereq: None.
5550/5556 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: Psychology 1010 or 3150.
5580/5586 Individual Differences (3) A critical study and experimental investigations of individual differences in human behavior. Particular emphasis on intelligence, anxiety, social traits, and intelligence in the behavior of children. Prereq: Nine (9) hours of psychology including Introduction to Psychology and Basic Statistics.
4430/8430 Jungian Psychology (3) The study of Sigmund Freud, psychoanalytic theory, with particular emphasis on the collective unconscious and dreams. Readings are emphasized. Prereq: None.
4440/8446 Abnormal Psychology (3) A course designed to examine the aberrant behavior of individuals, symptoms, dysfunctions, therapy, and normality of proclivities and symptoms of conditions. Prereq: Psychology 1010 or permission.
4450/8456 Personality Theories (3) A comparative analysis of modern and philosophical psychology and psychoanalytic and behavioristic personality theories. Cross listed with Psychology 5960. Prereq: Psychology 1010 or permission.
4540/8540 Introduction to Psychological Assessment (3) A study of the principles of performance psychology including the application of psychological assessment techniques to decisional criteria, assertions, applications, validations, and tests. Prereq: None.
4730/8736 Jungian Psychology (3) The study of C. G. Jung's analytical psychology, and related philosophical and religious concepts. Prereq: Psychology 1010 or permission.
4790/8796 Jungian Psychology (3) The study of C. G. Jung's analytical psychology, and related philosophical and religious concepts. Prereq: Psychology 1010 or permission.
4800/8800 Social, Psychological, and the Law (3) An examination of sociological, psychological, and legal aspects of selected social welfare policy issues such as abortion, illegitimacy, alcoholism and drug addiction, credit and debtor's rights, marriage and divorce, consumer relations, hate crimes, housing laws, and other relevant issues. Cross listed with Police Psychology 8290 or permission.
8000 The Profession of Psychology (3) A required course for graduate students in psychology. Intended to familiarize the beginning graduate student with the profession of psychology including such topics as ethics, professional organizations, job and educational opportunities, the use of reference materials, licensing and certification, and other relevant material.
8060 Computer Concepts in Psychology and the Behavioral Sciences (3) An introduction to the use of computers as a tool for the study of psychology and the behavioral sciences. Includes a functional description of computers and a discussion of programming languages as well as specific uses. Prereq: Psychology 2130 or equivalent.
8140 Nonparametric Statistics (3) A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in social behavioral sciences. Prereq: Psychology 2130 or equivalent.

8150 Introduction to School Psychology (3) This course is intended for the introductory graduate student in either the psychological assistant or school psychologist programs. It is offered on a rotating basis and is open to one of the student's first exposures to the profession of school psychology and is introductory to the field of school psychology. Prereq: Psychology 1010 or permission. Prereq: Admission to the graduate program and the psychological assistant or school psychologist program.

8310 Advanced Educational Psychology (3) A study of the principles of learning and testing and their applications to problems of contemporary education, particularly to those involved in special education. Prereq: Psychology 3510.
8520 Clinical Assessment I: Foundations (3) This is an introductory or survey course on the clinical and subfields of human assessment. It is intended to serve as the foundation for more advanced courses. Students will be exposed to, studied in, and be expected to design and conduct an in-depth analysis of statistical techniques used in clinical psychology. The course will be expected to design and conduct a research project that involves the study of one or more human assessment techniques. Prereq: Graduate standing or permission of the instructor.

8590 Problems in Psychology (1-6) A course in which students can present problems of interest. Prereq: Permission of the instructor.

8591 Seminar in Measurement and Evaluation (3) An overview of issues and major theories in the field of measurement and evaluation. Prereq: Permission of the instructor.

9100.00 Problems in Psychology (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-observation/experimental study in some specific area of social and personality development. Prereq: Graduate standing and Psy 9560 or equivalent.

9200 Seminar in Social Psychology (3) An overview of issues and major theories of human development across the life span. This course will be based on a focus on the experimental literature relating to genetics, language, perception, cognition, and social development. Research methods will be an integral part of the course. Prereq: Permission of the instructor.

9203 Seminar in the Study of Human Development (3) An introduction to the study of human development from a social psychology perspective. Prereq: Permission of the instructor.

9210 Proseminar: Social Psychology (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-observation/experimental study in some specific area of social and personality development. Prereq: Graduate standing and Psy 9560 or equivalent.

8900 Problems in Psychology (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-observation/experimental study in some specific area of social and personality development. Prereq: Graduate standing and Psy 9560 or equivalent.
107 DEGREE REQUIREMENTS

9610 Industrial Motivation & Morale (3) A course focusing on theory and research in the areas of motivation, job behavior, and job satisfaction. Emphasis is placed on such topics as expectations, goal setting, job attitudes, 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 designing and implementing training programs in response to actual industrial situations. Prereq: Admission into industrial psychology graduate program.

9630 Industrial Psychology Research Methods (3) Acquisition of skills in writing research proposals, executing research, and writing journal articles. Intends to introduce students to the various research data collection and statistical techniques in the field. Prereq: Admission to the industrial psychology graduate program. Prereq: Admission into industrial psychology graduate program.

9640 Criterion Development and Performance Appraisal (3) An in-depth examination of the fundamentals of personnel psychology including job analysis, criterion creation, and performance measurement and appraisal in organizations. Practical experience in the application of techniques and procedures is emphasized through group and individual projects in organizational settings. Prereq: PSY 9500 (may be taken concurrently).

9670 Personnel Selection (3) An explanation of current theory and practice in personnel selection. Problem solving strategies are emphasized throughout the design, analysis, and interpretation of selection research and the implementation of selection techniques. The course is consistent with Equal Opportunity Guidelines and federal law. Prereq: PSY 9650.

9790 Seminar in School Psychology (3) This course is designed to give the advanced student in the School Psychology Program an overview of significant professional topics in the field. Ordinarily such topics such as state licensing laws, state of Nebraska certification requirements, public and private job opportunities, specific job development guidelines, roles, and functions, and ethics will be included in the course. Every attempt will be made to take the principles from the classroom and develop the principles of practice which constitute the daily requirements of a Master's degree, and admission into the School Psychology Program.

9910 Topical Seminar in Psychology (1-3) A discussion of specific advanced topics which will be announced whenever course is offered. Prereq: Permission of the instructor.

9950 Practicum in Organizational Behavior (1-6) Faculty supervised experience in industry or business designed to bridge the gap between the classroom and the job, emphasizing use of previously acquired knowledge in dealing with practical problems. Prereq: Permission of department and admission to doctorate program.

9960 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 the department.

9970 Practicum in School Psychology (1-6) Faculty-supervised experience in school psychology agency designed to acquaint the student with the practical problems faced by school psychologists. Prereq: Prereq: Admission into the school psychology program and written permission of department.

9980 Internship in School Psychology (3-6) A systematic exposure to the practice of psychology in schools. School consultation in a variety of educational settings will be undertaken. The student's responsibilities will be documented in a contractual agreement between the intern, the sponsor school(s) and the local and university supervisors. Prereq: Completion of 4 hours of PSY 9770 and written permission of the School Psychology Committee.

PUBLIC ADMINISTRATION

PROFESSORS: Paulsen, Reynolds, Suzuki
ASSOCIATE PROFESSORS: Hinton, Reed, Swan

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 nonprofit agencies and (2) to provide general education in the field of public administration. The MPA degree is open to professionals with general administration skills 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 will likely come from widely differing backgrounds. Some may come from the public employment and business administration such as law, health administration and business administration while others may enter with degrees in the social sciences, engineering, business, humanities, 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 1985, the MPA 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, including 36 hours of coursework and a three-hour internship. The course work shall include 18 hours of core courses, required of all MPA students, and 18 hours of concentration courses which may include one of the 12-hour options listed below or may, on occasion, include a combination of the 12-hour concentrations. A particular set of career development needs. For students who have not completed courses in accounting, statistics or Introduction to Public Administration or equivalent, graduate level equivalents are required. If you take all three and the internship, your program will be four years.

The internship requires the equivalent of 15 weeks work at 20 hours per week in a staff position with a public or nonprofit agency. The internship requirement may be waived for prior professional work in public or administrative service in a public or nonprofit agency. Where the internship is waived, an additional three-hour elective will be substituted.

In addition to the 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 or Bachelor of Science degree or equivalent. To be admitted unconditionally, the student must have achieved a grade average of 3.00 on a 4.00 system for the full undergraduate program, or the undergraduate major of Public Administration, during the senior year and must have completed all other admission requirements for Graduate Studies. This includes completion of one of the following Graduate Record Examination (GRE), Miller Analogies Test (MAT), the Graduate Management Admission Test (GMAT), or the Law School Admissions Test (LSAT). Provisional admission may be granted where the applicant has achieved a grade average of 2.70 or above and has completed one of the four examinations (GRE, MAT, GMAT, LSAT). Exceptions to the 2.70 grade point average may be made by the Graduate Program Committee in conjunction with the Graduate Dean when the applicant has demonstrated record of public sector administration; or

has demonstrated through recent coursework an ability to successfully complete graduate work; or

in rare instances, a student whose grade point is below 2.7 may be admitted provisionally should the applicant demonstrate ability to do graduate level work be established.

Students who wish to take courses for professional growth or personal interest and who do not intend to pursue an advanced degree may be granted unclassified admission.

To apply for admission to the MPA Program, a student has to submit an application for admission, a work history or resume, and transcripts from all undergraduate institutions to the UNO Admission Office.

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:

1. They must take the TOEFL exam with a score of 550 or better.

2. 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 complete effectively at the graduate level with English-speaking native-born Americans.

3. 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 the instructor and the ILINO staff that their English competency is adequate for graduate level work. When such competency has been determined, the student will be allowed to enroll in MPA courses.

Application for Candidacy

In accordance with Graduate College guidelines, students must apply for candidacy for the degree within five years of the first hour of graduate credit necessary to the degree program. To apply for candidacy, students must have completed: (1) a grade average of "B" or above, (2) a grade average of "B" with no grade lower than "C" has been earned. (3) the appropriate graduate examination scores (GRE, MAT, GMAT, or LSAT) have been placed on file with the Graduate Office; and (4) the student is not currently carrying credit in any courses toward the MPA. As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. Students who have already completed a graduate degree in the same area may be eligible to apply for candidacy; as soon as the student can qualify for admission to candidacy.

Transfer of Credit

Students may transfer up to 1/2 of the coursework required for the MPA degree requirements. This approval of the Graduate Program Committee. Students should discuss this with a faculty advisor.
The Department of Public Administration has six core courses, required for all MPA students.

1. PA 8405 Public Budgeting
2. PA 8400 Seminar: Research Methods
3. PA 8410 Public Personnel Management (or PA 8460, Seminar in Public Personnel Management if credit has been earned in undergraduate PA 4410 courses)
4. PA 8420 Seminar: Introduction to Public Organizations
5. PA 8440 Seminar in Organization Development in Public Agencies
6. PA 8450 Seminar in Advanced Management Analysis
7. PA 8480 Seminar in Public Financial Administration

The following courses may be required, depending upon the student's academic and professional background:
1. PA 8050 Survey of Public Administration
2. PA 8100 Seminar: Public Administration
3. PA 8300 Seminar: Public Administration

Optional Areas

General Public Administration: Twelve hours from the following selected list in consultation with advisor. It is possible under exceptional circumstances to substitute other courses with approval of advisor.

- PS 8046 Legislative Process
- PS 8056 Judicial Process
- PA 8425 Municipal Administration
- PA 8100 Seminar: Public Administration
- Econ 8566 State and Local Finance
- PA 8120 Seminar: Public Law
- PA 8320 Seminar: Public Policy
- PA 8460 Seminar: Public Personnel Management
- PA 8490 Urban Economics
- PA 8520 Issues in Public-Private Sector Cooperation
- PA 8550 Issues in the Administration of Non-Profit Organizations
- PA 8600 Seminar: Administrative Law
- PA 8700 Seminar: Grants and Contracts
- PA 8910 Urban Seminar in Metropolitan Planning and Development
- Econ 8870 Seminar: Regional Economics
- PA 8920 Readings in Public Administration
- PA 8940 Research in Public Administration
- GEO 8830/8840 Interdisciplinary Seminar on the Urban Community
- GEO 8166 American Urban Landscape

Public Works-Civil Engineering Option: Twelve hours from the following list in consultation with advisor. It is possible under exceptional circumstances to substitute other courses with approval of advisor and Graduate Program Committee Chair.

- CE 4290/8290 Biological Waste-Water Treatment
- CE 4280/8280 Application of Chemistry to Sanitary Engineering
- CE 4610/8610 Urban Transportation Planning
- CE 4630/8630 Transportation Geometrics
- CE 4660/8660 Transportation Engineering II
- CE 4670/8670 Transportation Planning
- CE 4680/8680 Water Quality
- CE 4690/8690 Urban Planning
- CE 4700/8700 Urban Transportation Planning
- CE 4710/8710 Urban Transportation Planning
- CE 4720/8720 Urban Transportation Planning
- CE 4730/8730 Urban Transportation Planning
- CE 4740/8740 Urban Transportation Planning
- CE 4750/8750 Urban Transportation Planning
- CE 4760/8760 Urban Transportation Planning
- CE 4770/8770 Urban Transportation Planning
- CE 4780/8780 Urban Transportation Planning
- CE 4790/8790 Urban Transportation Planning
- CE 4800/8800 Urban Transportation Planning
- CE 4810/8810 Urban Transportation Planning
- CE 4820/8820 Urban Transportation Planning
- CE 4830/8830 Urban Transportation Planning
- CE 4840/8840 Urban Transportation Planning
- CE 4850/8850 Urban Transportation Planning
- CE 4860/8860 Urban Transportation Planning
- CE 4870/8870 Urban Transportation Planning
- CE 4880/8880 Urban Transportation Planning
- CE 4890/8890 Urban Transportation Planning

Gerontology Option: Twelve hours to include coursework from the following list in consultation with advisor. It is possible under exceptional circumstances to substitute other courses with approval of advisor.

- GERO 8110 Applied Social Gerontology
- GERO 8115 Aging and Human Behavior
- GERO 8120 Administrative and Legal Concerns of the Elderly
- GERO 8125 Aging and Mental Health
- GERO 8130 Gerontology
- GERO 8140 Gerontology
- GERO 8150 Gerontology
- GERO 8160 Gerontology

Local Government Option: Twelve hours from the following selected list in consultation with advisor. It is possible under exceptional circumstances to substitute other courses with approval of advisor.

- Gergy 8136 Urban Geography
- PA 8430 Municipal Administration
- Econ 8566 State and Local Finance
- PA 8100 Seminar: Public Administration
- PA 8300 Seminar: Public Policy
- PA 8490 Public Sector Labor Relations
- PA 8520 Issues in Public-Private Sector Cooperation
- PA 8550 Issues in the Administration of Non-Profit Organizations
- PA 8600 Seminar: Administrative Law

The Planning Option: Twelve hours to include coursework from the following list selected in consultation with advisor. It is possible to substitute other courses with approval of advisor and Graduate Program Committee Chair.

- CRP 8110 Urbanism and Planning in the U.S.
- CRP 8130 Planning Process and Theory
- CRP 8150/8155 Housing Renewal and Development
- CRP 8220 Research Methods for Planning
- CRP 8230 Planning Administration and Implementation
- CRP 8370 Special Topics in Planning
- CRP 8380 Advanced Planning
- CRP 9120 Planning and the Natural Environment
- CRP 9130 Planning within the Intergovernmental Context
- CRP 9170 Planning with Minority and Low Income Groups
- CRP 9950 Human Resources Planning
- PA 8800 Urban Seminar in Metropolitan Planning and Development
- GEO 8050 Land Use
- GEO 8360/8365 Interdisciplinary Seminar on the Urban Community

The Environmental Option: Twelve hours to include at least one of the courses listed below, the remaining part of the program to be custom designed for the student at the discretion of the Graduate Program Committee of the Biology Department. Students selecting this option must be approved for...
entrance into the graduate program by both the Department of Public Administration and the Department of Biology.

BIO 8190 Communities and Ecosystems
BIO 8830 Environmental Physiology
BIO 8850 Plant Ecology

The Criminal Justice Option (Students choosing this option should have background in criminal justice).

Required courses:
CJ 8040 Seminar: Police and Society
CJ 8110 Criminal Justice Planning and Change

Recommended courses:
CJ 8040 Seminar: Police and Society
CJ 8110 Criminal Justice Planning and Change

URBAN STUDIES

Master of Science With a Major In Urban Studies

This is a professional graduate degree which is designed: (1) to prepare students for human service careers in urban settings, and 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.

The general prerequisite for admission to the Urban Studies Graduate Program is a Bachelor of Arts or Bachelor of Science degree.

Admission

The general prerequisites 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 3.00 on a 4.0 scale in either the full undergraduate program, for the undergraduate major of Public Administration, or for the junior-senior years and must have completed all other admission requirements for Graduate Study. This includes completion of one of the following: Graduate Record Examination (GRE), the Miller Analogies Test (MAT), the Graduate Management Admissions Test (GMAT), or the Law School Admissions Test (LSAT).

Provisional admission may be granted where the student has achieved a grade average of 2.70 or above or has not completed one of the four examinations (GRE, MAT, GMAT, or LSAT). Exceptions to the 2.70 grade point average may be made by the Graduate Dean where the candidate has demonstrated a demonstrated record of work experience directly related to Urban Studies and has graduated at least four years previous to application; or has demonstrated through recent coursework 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.

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 3.00 has been earned; (3) the appropriate graduate examination scores (GRE, MAT, GMAT, or LSAT) have been placed on file with the Graduate Dean’s Office; and (4) the student has been recommended by study.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. Provisional forms should be filed out by consultation with the graduate advisor as soon as the student can qualify for admission to candidacy. A detailed resume must be included with the application.

Transfer of Credit

Students may transfer up to 1/3 of the coursework required for the Urban Studies degree requirements.

Approval of Graduate The Program Committee. Students should discuss this with a faculty advisor. The request for a transfer of credit must 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 coursework are required. A core of six required courses will be completed, including (1) in Urban Studies 8010, 8020, 8026, 8020, 8040, and a graduate course in research methods. Courses applicable to the area of concentration may include but are not necessarily restricted to: Community and Regional Planning 8116, 8136, 8126, 9240; Public Administration 8120, 8260, 8236, 8256, 8276, 8266, 8276; Geography 8126, 8810, 8850, 8810. A maximum of nine hours of optional credit may be selected from Economics 8316, 8326, 8800, 8850; History 8436, 8446, 8476; Geography 8016, 8136, 8216; or any of the courses listed above, subject to approval. Eighteen hours of the coursework must be at the 8000 level. (A Master’s thesis is not required.)

The GRE must be taken during the first semester of enrollment.

A comprehensive final examination is required, but a thesis is not required.

Public Administration

8006 Introduction to Urban Planning (3) This course will serve as an introduction to the development of planning as it has shaped and reacted to major trends in U.S. history. It will provide students with an awareness of planning principles and the processes and practice involved in the field. Planning procedures and methods and contemporary applications will be reviewed.

8306 Introduction to the Public Policy (3) A study of the economic, social and political determinants of public policy in terms of administration and decision making and of measuring and evaluating policy impact. The course includes both study of general public policy and the specific, particular policy topics. Prereq: Permission of advisor.

8410 Public Personnel Management (3) A study of the personnel process in American government. The processes and problems of recruiting, structuring, and operating public personnel systems will be examined. Public personnel management, recruitment, training, performance, evaluation, and benefits are discussed.

8430/8436 Municipal Administration (3) An in-depth study of the personnel process in American government. The processes and problems of recruiting, structuring, and operating public personnel systems will be examined. Public personnel management, recruitment, training, performance, evaluation, and benefits are discussed.

8505 Public Sector Management of the Environment (3) A study of the economic, social and political determinants of public policy in terms of administration and decision making and of measuring and evaluating policy impact. The course includes both study of general public policy and the specific, particular policy topics. Prereq: Permission of advisor.

8510 Public Personnel Management (3) A study of the personnel process in American government. The processes and problems of recruiting, structuring, and operating public personnel systems will be examined. Public personnel management, recruitment, training, performance, evaluation, and benefits are discussed.

8526 Public Sector Labor Relations (3) This course deals with the origins, characteristics, and implications of public sector union activity in the broad category of public service. Credit/No Credit Prereq: All coursework for the M.P.A. completed.

8530/8536 Long Term Care Administration (3) An introduction to the field of long-term care services. This course will need the approval of the Dean before being offered. Prereq: Permission of advisor.

8540 Public Sector Labor Relations (3) This course deals with the origins, characteristics, and implications of public sector union activity in the broad category of public service. Credit/No Credit Prereq: All coursework for the M.P.A. completed.

8550/8556 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 6 hours in PAB8560 and PAB8560 can be taken without prior permission by the graduate program chairman. Further, each topic in the course will need the approval of the Dean of Graduate Studies before being offered. Prereq: Permission of advisor.

8567 Special Topics (1-3) A variable content course with Public Administration and Urban Studies topics selected in accordance with student and faculty interest. Topics selected may include urban planning and development, public administration, and local government administration. Prereq: Permission of advisor.

8600 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, including the scientific method of public administration and political science. Prereq: 2170, permission of the graduate advisor.

8630-8640 Internship (3 sem. per.) Minimum of 6 hours to be granted upon completion of written report on internship. Internship in some government, national, state, local, or non-profit agency and in some instances public or private agencies. Students will take the Credit/No Credit. Prereq: All coursework for the M.P.A. completed.

8826 Survey of Public Administration (3) This course is designed for undergraduate students who have had no undergraduate introduction to Public Administration coursework. It involves a review of the development of public administration and an introduction to the major concerns of public administration. Prereq: 2170, permission of the graduate advisor.

8827 Survey of Public Administration (3) This course is designed for undergraduate students who have had no undergraduate introduction to Public Administration coursework. It involves a review of the development of public administration and an introduction to the major concerns of public administration. Prereq: 2170, permission of the graduate advisor.

110 DEGREE REQUIREMENTS

111 URBAN STUDIES
8400 Public Budgeting (3) A study of public sector budgeting, including revenues, history, process, approaches, techniques, and political and reform. Prereq: PA 2170 or PA 8050 or Permission of advisor.

8420 Introduction to Public Organizations (3) A study of the various approaches to understanding public organizations and the relationship of these approaches to the design and functioning of public agencies. Prereq: PA 2170 or PA 8650 or Permission of advisor.

8440 Seminar in Organization Development in Public Agencies (3) A study of the theory and practice of organizational development in public agencies. Development of interpersonal skills dealing with organizational problems is stressed. Prereq: PA 2170 or PA 8650 or Permission of Advisor.

8450 Seminar in Advanced Management Analysis in Public Agencies (3) A study of the 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 2170 or PA 8650 or Approval of advisor.

8460 Seminar in Public Personnel Administration (3) This course focuses on the principal components affecting the selection and utilization of personnel by government agencies. The emphasis is in terms of description of processes, their interaction, and their identification and exploiting solutions to problems. Prereq: Permission of graduate advisor.

8470 Administrative Ethics (3) This course is designed to make students of public administration 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: PA 2170 Introduction to Public Administration or permission of the instructor.

8480 Seminar in Public Financial Administration (3) Financial organization, intergovernmental relations, and the administrative and political aspects of budgeting, planning, and control. Prereq: Permission of graduate advisor.

8500 Issues in Public-Private Sector Cooperation (3) This course introduces students to the interaction and processes, as well as the tools and techniques, of public-private sector cooperation. The course will introduce students with the concepts and skills needed to develop public-private administrator joint activities between the public and private sectors. Such cooperative activities have become an important aspect of public administration in recent years. Prereq: Permission of Advisor.

8520 The Metropolitan As A Public Economy (3) The integration of political and economic localities into the metropolitan system as they affect metropolitan problems such as poverty, transportation, pollution, recreation, and management will be analyzed.

8580-8640 Interdisciplinary Seminar On Urban Studies (3) Comparative, urban studies: Emphasis will be upon contrasting the cities of the developed and developing world (also listed under Geography). 8580 Urban Problems in Developing Countries (3) A seminar in the development, acquisition and administration of grants and contracts. The course will include legal considerations, planning and planning for application to and awarding agencies, proposal and problems for project grants and proposals. Prereq: Graduate standing with P.A. major, or permission of the Instructor.

8610 Seminar in Metropolitan Planning (3) An overview of the present status of planning in American cities, with emphasis on the study of the function of metropolitan development, comprehensive plans, and problems of metropolitan transformation and its goals and problems.

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, or who has been advised by the department to be capable of pursuing a highly independent course of study. Prereq: Permission of graduate administration and permission of graduate advisor.

9490 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 internships and who might profit by in-depth research on a problem of public administration rather than additional course work. Prereq: 15 hours graduate work in public administration and permission of faculty advisor.

Urban Studies

4560/5560 Introduction to Urban Planning (3) This course will serve as an introduction to the development of urban planning as it has shaped and reacted to major trends in U.S. history. It will contrast the cities of the developed and developing world and be upon contemporary issues in the field of planning and will include planning, planning procedures and methods and contemporary issues in the field.

4565 Comparative Urban Studies (3) Comparative urban studies: Emphasis will be upon contrasting the cities of the developed and developing world.

8810 Seminar in Metropolitan Planning (3) An overview of the present status of planning in American cities, with emphasis on the study of the function of metropolitan development, comprehensive plans, and problems of metropolitan transformation and its goals and problems.

8830-8840 Interdisciplinary Seminar On Metropolitan Issues (3) A seminar in the development, acquisition and administration of grants and contracts. The course will include legal considerations, planning and planning for application to and awarding agencies, proposal and problems for project grants and proposals. Prereq: Graduate standing with P.A. major, or permission of the Instructor.

8850 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 internships and who might profit by in-depth research on a problem of public administration rather than additional course work. Prereq: 15 hours graduate work in public administration and permission of faculty advisor.

Foundation Courses

8000 Human Behavior and the Social Environment (3) A foundation course providing basic knowledge of the contributions of the biological, behavioral, and social sciences to understanding human functioning in transaction with the environment. Prereq: Permission of Graduate School of Social Work student or permission of School.

8090 Social Welfare Policy, Services & Administration (4) An examination of the development and the functioning of public welfare systems today. Emphasis on understanding policy analysis related 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: SW 8000 prior to or concurrent with.
Micro Practice Courses

8200 Micro Intervention I (3) An advanced course providing an in-depth study of the theory and practice of several major therapeutic modalities used with individuals and consideration of the family and social context. Prereq: SW 8170 or BSW.

8210 Micro Intervention II (3) To provide the student knowledge of theories and techniques in various modalities used in working with individuals, families, and small groups with an emphasis on particular settings such as rural or urban. Prereq: SW 8170 or BSW.

8250 Family Analysis and Treatment (3) The family is considered as a system of social work intervention. Several theories of family role are considered; alternative modalities of family treatment are assessed; intervention techniques are developed. Prereq: SW 8200 or permission of School.

8260 Gestalt-Transactional Analysis (3) An intensive didactic and experiential course designed to give students in-depth knowledge and practice skills in the combined use of transactional analysis and group psychotherapy. Prereq: SW 8200 or permission of School.

8270 Analysis and Treatment of Sexual Problems (3) The course provides an intensive review of current theory and research in human sexuality. It emphasizes development of understanding and skills necessary for providing sex education for various client groups, counseling or treating sex-related problems. Prereq: SW 8200 or permission of School.

8290 Clinical Seminar in Marriage and Family Therapy (1-3) This course offers the opportunity for deepening the student's knowledge and skills in selected areas of marriage and family therapy. May be repeated for up to 24 hours. Prereq: Gradate standing and permission of the School of Social Work.

Practicum Courses

8400 Advanced Social Work Practicum I (3) To provide individualized experience in micro or macro social work practice. Prereq: SW 8170 or BSW, SW 8200, or SW 8500 prior to or concurrent with micro practicum, or one of the following: SW 8500, SW 8520, SW 8540, SW 8580 prior to or concurrent with macro practicum, or 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 and competencies achieved in Advanced Practicum I. Prereq: SW 8170 or BSW, SW 8200, or SW 8500 prior to or concurrent with SW 8140 or SW 8520, or one of the following: SW 8500, SW 8520, SW 8540, SW 8580 prior to or concurrent with micro practicum for Macro practicum. Prereq: SW 8170 or BSW, SW 8200, or SW 8500, SW 8520, SW 8540, SW 8580 prior to or concurrent with macro practicum.

8420 Advanced Social Work Practicum III (3-4) To provide a third advanced practice opportunity in a selected social welfare agency or setting. Prereq: SW 8410, or permission of School.

8500 Social System Development (3) An analysis of the social development model for effecting social and societal change. The concept of social development model was introduced by the United Nations, has gained increasing utilization in developed nations and is being adopted by the United Nations, has gained increasing utilization in developed nations including the United States. The course is offered for students who have a Masters degree in Social Work with an emphasis on macro social work and SW 8410 and SW 8140 or BSW, or permission of School.

8520 Social Work Administration (3) A study of the role of administrators in the creation and administration of social service agencies. Prereq: SW 8410, SW 8140, SW 8170 or BSW, or permission of School.

8540 Social Welfare Planning (3) An advanced course in social planning, including administrative planning for social services, community planning, and program planning for social change. Prereq: SW 8140, SW 8170, or BSW, or permission of School.

8560 Supervision in Social Work (3) To provide the student with knowledge of theories and practices of supervision used in supervising paid and volunteer staff in social agencies, with emphasis on the different roles of the supervisor and the supervisee, the dynamics of supervisory relationships, and the role of the supervisor in both educational and administrative roles. Prereq: SW 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: SW 8140, SW 8170, or BSW, or permission of School.

Social Problem/Condition Courses

4180/8186 Permanence for Children (3) The course is designed for the student to acquire an understanding of the social policy/condition involved in providing services to those persons who have been affected by dependency, child abuse and neglect and to acquire an understanding of the role of those who serve as parent, foster parent, adoptive parent, and others involved in the welfare of children. Fulfills either social problem/condition or graduate micro practice course requirement. Prereq: SW 8100, SW 8666, or permission of School.

4600/8606 Social Work in Mental Health (3) This course is designed to provide the advanced student who is seeking substantial specialized knowledge of the role of social work in mental health and mental retardation. Prereq: SW 8000 or BSW, or permission of School.

4630/8636 Social Work in Health Care Programs (3) A critical review of social work practice in health care programs; it will examine the roles and emerging roles, plans for an ideal situation. The course is designed to provide the student with a broad view of the role of social worker in health care programs; it will also be exposed to the various roles involved in the provision of health care and some of the changes that are currently utilized by these systems. Prereq: SW 8100 or BSW, or permission of School.

4660/8666 Social Work in Child Welfare (3) The course is designed for the student to acquire an understanding of the primary child welfare programs and services designed to strengthen family life. The student will be exposed to the major client groups and the services covered are: (1) supportive services; (2) protective and investigative services; (3) case management services. Prereq: SW 8100 or BSW.

4686 Social Work with Developmentally Delayed Children and Their Families (3) This course content will include theory, practice, and social policy issues relevant to the social work practice with children with intellectual disabilities, such as a physical handicap, mental retardation or emotional disturbance affects normal child developmental needs. Special emphasis will be placed on gaining social work skills relevant to families and children with exceptional children. For social work students, the course meets the social problem condition requirement. Prereq: SW 8000, or BSW, or permission of School.
116 DEGREE REQUIREMENTS

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, and experiential exercises are utilized to aid the student in understanding that hospice is an alternative to the traditional medical model when the "cure" system is not functional, then the "care" system, hospice, can be offered. (Same as GERO 8856/8857). Prereq: Senior or graduate standing in Gerontology or Social Work, GERO 8730, or permission of School.

8864 Women's Issues and Sexism: A Social Work Perspective (3) This course will focus on the issues of sexism and social sex in social work practice and their implication for social service delivery systems, social policy and practice modalities. Prereq: SW 8100 or permission of the instructor.

4870/8876 Social Work with Minorities (3) The course will provide the student with information on social, political, and economic factors applicable to specific minority groups and general insight into working with such groups. Attention will be given to special practice techniques applicable to each of these groups and variations from traditional practice. In alternate semesters the course will be taught with one of three different focus groups: 1-Social Work with American Indians (Prereq: SW 8100 or BSW, or permission of School), 2-Social Work with Black Youth (Prereq: BSW, or concurrent with or subsequent to SW 8100/8610, or permission of School), and 3-Social Work with Hispanics. (Prereq: BSW, or concurrent with or subsequent to SW 8100, or permission of School). The topics selected will deal with one of three different minority issues. Prereq: Permission.

8900 Special Studies in Social Welfare (1-3) Special study is in a selected area of social welfare for deepening the student's knowledge in that particular area. Prereq: Permission.

8900 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 courses (SOC 8900, or permission of the instructor). Prereq: SW 8100 or permission of the instructor.

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 evaluation, and the impact of program evaluation on society will be covered. Prereq: SW 8920, and concurrent with or subsequent to SW 8800 and SW 8910, or permission of School). The course may be repeated when it deals with a different program. Prereq: Refer to description.

8864 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 Standing.

8670 The Human Ecology of Child Abuse and Neglect: An Analysis of Research and Intervention (3) This course will provide a review of 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 requirement. Prereq: SW 8920.

8700 Alcohol Abuse: Comprehensive Treatment Programs (3) An examination of problems caused by alcohol abuse, and the treatment approaches that are common in a social work setting. Special emphasis will be placed on treatment programs and techniques that involve the use of chemical dependency services. Prereq: SW 8900 and permission of the instructor.

2260/8260 Urban Anthropology (3) The course is intended to examine the city from an anthropological point of view. Included will be an overview of the history and the processes by which cities developed, as well as the internal social 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 the developed, industrialized ones. Graduate students will be required to do research work and will be expected to be acceptable to both the instructor and the student. In addition to the written work, the student will also be required to complete a major research project. Prereq: Permission of the instructor.

2210/8210 Cultural Anthropology (3) Arts, economy, family, kinship, politics, religion, subsistence, technology, art and worldview as derived from a number of societies, anthropological theories and methods of study. Prereq: Permission of the instructor.

2220/8220 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 archaeo­logist investigation techniques, dating methods, and taxonomic concepts. Prereq: For 2220, Anth. 4502, or 4510. For 8220, permission of the instructor.

4520/8526 Psycholinguistics (3) A discussion of the literature concerned with how psychologlcal variables as perception, learning, memory, and development relate to different topics of speech sounds. (Same as Psychology 8526 and Communication 8526). Prereq: Senior or graduate standing or permission of the instructor. Rec­ req: Anth. 1520. (Same as Psychology 4520 and Comm. 4520)

2920/8920 Seminar in Anthropological Problems (3) The seminar will cover a special topic which will be announced each time the course is offered. The topics will be selected by the instructor on projects designed to increase the student's depth of knowledge in specific areas. Prereq: Permission of the instructor.

SOCIOLoGY

4010/8016 Social Control of Behavior (3) The social processes by which the person's behavior is adapted to the group. Emphasis is placed on the roles, self control, analysis and measurement of behavior in the context of social and group settings. Prereq: For 4010, 9 hours of sociology, including Sociology 101. For 8016, permission of the instructor.

2050/8052 Collective Behavior (3) Group and institutional processes of ephemeral social action and institution formation are studied. The development of transitory groups and ideologies in new movements and organizations through organization formation; case and comparative investigations of the origins and growth of collective movements are made and relevant social theory is studied. Prereq: For 4050, 9 hours of sociology, including Sociology 101. For 8052, permission of the instructor.

The examination is used in counseling the student in his/her degree program. In addition the student must demonstrate proficiency in sociology through successful completion of comprehensive examinations.

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

Master of Arts

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. A minimum of 12 additional graduate semester hours of coursework. Detailed explorations of graduate requirements should be secured through consultation with the Sociology Office.

Master of Science with a Major in Applied Sociology

Although similar to the M.A. degree, the M.S. degree deviates to emphasize applied work. 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 6 semester-hour equivalents of a supervised work practicum (approximately 200 hours), and write an acceptable report about the experience.

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

Anthropology

2210/8210 Cultural Anthropology (3) Arts, economy, family, kinship, politics, religion, subsistence, technology, art and worldview as derived from a number of societies, anthropological theories and methods of study. Prereq: Permission of the instructor.

2220/8220 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 archaeologist investigation techniques, dating methods, and taxonomic concepts. Prereq: For 2220, Anth. 4502, or 4510. For 8220, permission of the instructor.

4520/8526 Psycholinguistics (3) A discussion of the literature concerned with how psychologlcal variables as perception, learning, memory, and development relate to different topics of speech sounds. (Same as Psychology 8526 and Communication 8526). Prereq: Senior or graduate standing or permission of the instructor. Rec­ req: Anth. 1520. (Same as Psychology 4520 and Comm. 4520)

2920/8920 Seminar in Anthropological Problems (3) The seminar will cover a special topic which will be announced each time the course is offered. The topics will be selected by the instructor on projects designed to increase the student's depth of knowledge in specific areas. Prereq: Permission of the instructor.

SOCIOLoGY

4010/8016 Social Control of Behavior (3) The social processes by which the person's behavior is adapted to the group. Emphasis is placed on the roles, self control, analysis and measurement of behavior in the context of social and group settings. Prereq: For 4010, 9 hours of sociology, including Sociology 101. For 8016, permission of the instructor.

2050/8052 Collective Behavior (3) Group and institutional processes of ephemeral social action and institution formation are studied. The development of transitory groups and ideologies in new movements and organizations through organization formation; case and comparative investigations of the origins and growth of collective movements are made and relevant social theory is studied. Prereq: For 4050, 9 hours of sociology, including Sociology 101. For 8052, permission of the instructor.
Sociology 410/8106 The Community (3) A basic course in community sociology. Sociological theory and the techniques of research in organized community studies are presented. Prerequisites: one year of college English and one year of college mathematics, or permission of the instructor. For 410, 9 hours of sociology including Sociology 1010. For 8106, permission of the instructor.

Sociology 4130/8136 Urban Sociology (3) An introduction to the city from the viewpoint of history, site, and structure, occupation, culture, and the comparative study of cities. (Same as Geography 4120/8120.)

Sociology 4190/8196 Sociology of Deviant Behavior (3) A theoretical analysis of the relation of deviant group behavior and subcultures to community standards of acceptable behavior as expressed in law and norms. Prereq: For 4190, 10 hours of sociology including Sociology 1010. For 8196, permission of the instructor.

Sociology 4210/8216 Urban Sociology II (3) A continuation of Sociology 4190/8196. Prereq: Graduate standing; permission of the instructor.

Sociology 4250/8256 Sociological Theory and Methods (3) A theoretical treatment of the family as a social institution with emphasis on the elements of its structure, functions, and subcultural misinterpretations, with the purpose of bringing together those factors which contribute to the generation and management of cultural conflict. Emphasis is placed on understanding the components of cultural conflict, and the roles of communication in cross-cultural situations. Prereq: For 4250, 10 hours of sociology including Sociology 1010. For 8256, permission of the instructor.

Sociology 4320/8326 Social Psychology (3-6) A theoretical and empirical study of the psychology of individuals and groups. Prerequisites: Sociology 3020 or its equivalent; permission of instructor.

Sociology 4410/8416 Advanced Qualitative Methods Provides training in the procedures of qualitative research in the social sciences. Prereq: For 4410, permission of the instructor.

Sociology 4510/8516 American Family Problems (3) A theoretical treatment of the family as a social institution with emphasis on the elements of its structure, functions, and subcultural misinterpretations. Emphasis is placed on understanding the components of cultural conflict, and the roles of communication in cross-cultural situations. Prereq: For 4510, 10 hours of sociology including Sociology 1010. For 8516, permission of the instructor.

Sociology 4610/8616 Advanced Qualitative Methods (3) This course familiarizes students with contemporary strategies, methodologies and techniques utilized in the study of the social sciences, and provides some of the essential skills necessary for the conduct of individual and/or group field projects. Prereq: Permission of the instructor.

Sociology 4620/8626 Sociological Theory I (3) First of two theory courses required of all majors. Theoretical and empirical perspectives on the main questions of social science. Prerequisites: Graduate standing; permission of instructor.

Sociology 4700/8706 Qualitative Research Methods II (3) The second of two courses required of departmental majors in social psychology. Prerequisites: two semesters of reading in sociological research. Topic will vary. Prereq: Permission of the instructor.

Sociology 4750/8756 Social Change (3) A discussion of theoretical and empirical perspectives on the main questions of social science. Prerequisites: two semesters of reading in sociological research. Topic will vary. Prereq: Permission of the instructor.

Sociology 4850/8856 Sociology of Religion (3) An analysis of religion in society. Prereq: Sociology 3020 or its equivalent; permission of instructor.

Sociology 4900/8906 Independent Study (1-3) Guided reading in special topics under the supervision of a faculty member. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

Sociology 4910 Social Problems of The Disadvantaged (3) A theoretical and empirical study of the sociological problems of the dispossessed. Prereq: Sociology 3030 or its equivalent. Prereq: Permission of instructor.

Sociology 5000 Research in Basic and Applied Sociology (3) A seminar for graduate students interested in independent research. Prereq: Graduate standing; permission of instructor.

Sociology 5210 Clothier Sociology (3) A seminar in the history of sociology. Prereq: Sociology 3020 or its equivalent; permission of instructor.

Sociology 5250/8256 Sociological Theory and Methods (3) A theoretical treatment of the family as a social institution with emphasis on the elements of its structure, functions, and subcultural misinterpretations. Emphasis is placed on understanding the components of cultural conflict, and the roles of communication in cross-cultural situations. Prereq: For 5250, 10 hours of sociology including Sociology 1010. For 8256, permission of the instructor.

Sociology 5320/8326 Social Psychology (3-6) A theoretical and empirical study of the psychology of individuals and groups. Prerequisites: Sociology 3020 or its equivalent; permission of instructor.

Sociology 5410/8416 Advanced Qualitative Methods Provides training in the procedures of qualitative research in the social sciences. Prereq: For 5410, permission of the instructor.

Sociology 5510/8516 American Family Problems (3) A theoretical treatment of the family as a social institution with emphasis on the elements of its structure, functions, and subcultural misinterpretations. Emphasis is placed on understanding the components of cultural conflict, and the roles of communication in cross-cultural situations. Prereq: For 5510, 10 hours of sociology including Sociology 1010. For 8516, permission of the instructor.

Sociology 5610/8616 Advanced Qualitative Methods (3) This course familiarizes students with contemporary strategies, methodologies and techniques utilized in the study of the social sciences, and provides some of the essential skills necessary for the conduct of individual and/or group field projects. Prereq: Permission of the instructor.

Sociology 5620/8626 Sociological Theory I (3) First of two theory courses required of all majors. Theoretical and empirical perspectives on the main questions of social science. Prerequisites: Graduate standing; permission of instructor.

Sociology 5700/8706 Qualitative Research Methods II (3) The second of two courses required of departmental majors in social psychology. Prerequisites: two semesters of reading in sociological research. Topic will vary. Prereq: Permission of the instructor.

Sociology 5750/8756 Social Change (3) A discussion of theoretical and empirical perspectives on the main questions of social science. Prerequisites: two semesters of reading in sociological research. Topic will vary. Prereq: Permission of the instructor.

Sociology 5850/8856 Sociology of Religion (3) An analysis of religion in society. Prereq: Sociology 3020 or its equivalent; permission of instructor.

Sociology 5900/8906 Independent Study (1-3) Guided reading in special topics under the supervision of a faculty member. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

Sociology 5910 Social Problems of The Disadvantaged (3) A theoretical and empirical study of the sociological problems of the dispossessed. Prereq: Sociology 3030 or its equivalent. Prereq: Permission of instructor.

Sociology 5920 Clothier Sociology (3) A seminar in the history of sociology. Prereq: Sociology 3020 or its equivalent; permission of instructor.

Sociology 5950/8556 Seminar in Sociology (3-6) A seminar in sociology with emphasis on the writing and presentation of a paper applicable to the social and cultural phenomenon. Prereq: Permission.

Sociology 5960 Seminar in Occupations & Professionals (3) Assigned research on an individual basis 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.

Sociology 5970 Independent Study in Topics On Urbanization (3-6) Graduate student research on an individual basis under faculty guidance on topics pertaining to urbanization. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics and geography.)

Sociology 6930-8940 Practicum In Applied Sociology A practical work experience under the guidance of a faculty member. The class is a practical course on the occupational world of sociologists. Prereq: Graduate standing; permission of instructor.

Sociology 6950-8960 Practicum In Applied Sociology A practical work experience under the guidance of a faculty member. The class is a practical course on the occupational world of sociologists. Prereq: Graduate standing; permission of instructor.

Sociology 6970 Independent Study in Topics On Urbanization (3-6) Graduate student research on an individual basis under faculty guidance on topics pertaining to urbanization. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics and geography.)

Sociology 8850 Seminar in Urban Economics (3-6) An introduction to the theory and practice of urban economics. Prereq: Consent of the instructor.

Sociology 8950-8960 Practicum In Applied Sociology A practical work experience under the guidance of a faculty member. The class is a practical course on the occupational world of sociologists. Prereq: Graduate standing; permission of instructor.
allows for individualization and provides an opportunity for in-depth scholarly study in an area of interest. 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 advisor. Possible choices include reading, Early Childhood Education, Gifted Education, Guidance, Improvement of Instruction, Learning Disabilities, Urban Education, Educational Administration, Educational Media, or an academic concentration, e.g., history, English, mathematics.

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.

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 890 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 coursework 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 advisor 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
The Master of Arts Degree in Elementary Education requires 30 hours of coursework. 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 advisor.

Master of Science

Degree Program
1. Required Courses
   - TED 8010 Introduction to Research
   - TED 8020 History and Philosophy of Education
   - TED 8030 Seminar: Education-Elementary
   - TED 8060 Current Issues and Trends in Education
   - TED 8070 Diagnostic and Corrective Instruction
   - TED 8430 School Curriculum Planning
   - EDA 8460 Administration and Supervision in Elementary Schools
   - 21 hours

2. Elective Courses
   - 9 hours

Area of Concentration
- Reading
- Reading Association for the professional training of Reading Specialists

Reading

Master of Science
The Master of Science degree in a major in reading conforms to standards of the International Reading Association for the professional training of Reading Specialists. Upon successful completion of the program, the student is recommended for K-12 endorsement in reading in Nebraska.

I. Core Professional Courses
   - TED 9110 Principles and Practices in Elementary Reading
   - TED 9120 Teaching Reading in the Secondary School
   - TED 9170 Seminar: Organization and Administration of Reading Programs
   - TED 9180 Seminar: Research in Reading
   - SPED 8130 Diagnostic and Remedial Instruction in Reading
   - SPED 8140 Measurement and Evaluation of Reading
   - SPED 8150 Clinical Practice in Reading
   - 18 hours

II. Related Professional Courses
   - Including Introduction to Research and selected work in such areas as foundation and general education, teacher education, special education, and psychology
   - 6 hours

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

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 advisor.

Master of Arts

I. Required Courses
   - TED 8010 Introduction to Research
   - TED 8020 Seminar: Education-Secondary
   - TED 8030 Analysis of Teacher Behavior
   - TED 8410 Improvement of Instruction
   - TED 8430 School Curriculum Planning
   - 6 hours

II. Related Professional Courses
   - 9 hours

Master of Science

I. Required Courses
   - TED 8010 Introduction to Research
   - TED 8030 Seminar: Education-Secondary
   - TED 8050 Analysis of Teacher Behavior
   - TED 8410 Improvement of Instruction
   - TED 8430 School Curriculum Planning
   - 6 hours

II. Related Teacher Education Courses
   - 6 hours

III. Related Professional/Academic Courses
   - 9 hours
Urban Education

Master of Science

The Master of Science 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 rewarding learning experiences for all students. This program is designed for both classroom and non-classroom educational leaders, including professionals working in allied professional fields, who are interested in the inter-disciplinary setting of the urban classroom. It is expected that students will be able to handle the learning problems of urban youth. The program emphasizes a cultural awareness and appreciation of the varied attention will be focused on a critique of existing programs and the development of new strategies for change and the improvement of education.

I. Required Courses

TED 8010 Introduction to Research
TED 8030 Seminar: Education and Society
TED 8150 Comparative Education
TED 8160 Anthropology and Urban Education
TED 8180 The Urban School

II. Select 6 hours from any of the following:

TED 8086 Mental Health for Teachers
TED 8286 Growth and Learning Problems of the Disadvantaged
TED 8150 Comparative Education
TED 8180 The Urban School
TED 8280 Anthropology and Urban Education

III. Electives to be determined by the student and the advisor

12 hours

Teacher Education

4280/8286 Patterns of Care in Early Childhood Education (3) An introduction to the basic cataloging procedures prescribed by the American Library Association and the Library of Congress. The course involves working with the LC Classification System, Sears List of Subject Headings, and MARC format used by OCLC. Prereq: Admission to the Graduate College.
4780/8786 Cataloging and Classification I (3) A study of the basic cataloging principles and practices of the various fields. Prereq: Admission to the Graduate College.
4780/8787 Cataloging and Classification II (3) A study of the basic cataloging principles and practices of the various fields. Prereq: Admission to the Graduate College.
4760/8766 Literature and Description of Educational Media (3) This course is designed for persons interested in gaining information about learning resources for preschool through secondary students, particularly in a school environment. Prereq: Admission to Graduate College.
4760/8767 Production and Utilization of Educational Media (3) The purposes 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.
4760/8786 Instructional Television Program Planning and Production (3) Students will be introduced to the role of televised instruction applied to instruction. Production training and practice, 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 Standing.
4770/8796 Production as an Instructional Medium (3) Various philosophical and methodological approaches will be used to illustrate the importance of visual literacy skills and the role of television as an instructional medium. Prereq: Graduate Standing.

Bibliography

4590/8596 Microcomputers and the Library Media Program (3) This course is designed for library media specialists and directors to acquaint them with the applications of microcomputers for library media centers. Computer terminology, software and hardware evaluation, instructional uses, and practical library management will be included in this total study of microcomputers. Prereq: Graduate Standing.
4650/8656 Literature for Children and Youth (3) The course is designed as a graduate level literature course to improve the utilization of literary materials for children from pre-school through grade 12 reading level. It is intended to provide an opportunity to explore, evaluate, and understand literature for children; to acquaint students with resources to provide an avenue for developing more meaningful and creative learning activities for children. Prereq: Graduate.
4660/8666 Literature for the Adolescent (3) This course is intended to assist media specialists develop an awareness of the characteristics of effective leadership in all types of library media centers. It also involves working with adult education and technical services. Special emphasis will be placed on the applications of the microcomputer to instruction. Prereq: Graduate Standing.
4760/8766 Cataloging and Classification I (3) A study of the basic cataloging principles and practices of the various fields. Prereq: Admission to the Graduate College.
4780/8786 Instructional Television Program Planning and Production (3) Students will be introduced to the role of televised instruction applied to instruction. Production training and practice, 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 Standing.
4780/8796 Production as an Instructional Medium (3) Various philosophical and methodological approaches will be used to illustrate the importance of visual literacy skills and the role of television as an instructional medium. Prereq: Graduate Standing.

4120/8121 Creating Bias Free Classrooms (3) This course is designed to develop principles of teaching awareness of social and community workers such as mental health professionals, social workers, school personnel, and all other people who work with youth. Prereq: Junior or Senior standing.

4240/8246 Parent Involvement in Early Childhood Education (3) This is a course for parents with an interest in teachers and educational professionals who work with young children. It will provide an introduction to educational techniques and skills necessary for the planning, design, implementation, and evaluation of effective parent involvement programs. Prereq: Admission to Teacher Education, CORE 1500, TED 2250, or standing.

4270/8276 Current Trends in Early Childhood Education (3) This course is intended for parents with an interest in the area of early childhood education and its current status at the state, national, and international levels. Prereq: Admission to teacher education, Core 1500, TED 2250, 58 hours, required grade point average.
Introduction to Research (1-3) A series of intensive courses especially for teachers in service scheduled as separate workshops, according to the subject matter. Prereq: Graduate standing or permission.

Research in Education (1-3) To acquaint the beginning graduate student with the nature and the functions of research, to enable the student to distinguish between research and other evaluative and analytical techniques, and to give some understanding of the ethical and spirit of research to provide experience in studying and preparing research reports. Prereq: Graduate standing.

History and Philosophy of Education (3) This course is designed to offer a critical perspective, both historical and philosophical, for understanding education in the United States. The course will critically evaluate educational thought and practice from the Colonial era to the present U.S.

Urban Education — Special Topics (3) The course provides an in-depth study of urban education problems and ideas. When scheduled, the specific focus of the course is limited to elementary education, secondary education, or urban education of other appropriate educational areas. Prereq: Graduate standing.

Seminar in Supervision of Students (3) The seminar is designed for teachers who wish to assist in the recognition of economic trends and techniques; to give some understanding of the context of the present situation and trends of educational policy. Prereq: Graduate standing.

New Ways of Knowing and Education (3) This course will cover a variety of teaching situations:atabasic level, a teaching situation based on experience from educational literature from various parts of the world. This will result in the student practicing the skills of a teaching assistant of the kind employed in the theoretical. The students are expected to "do" and just "know about" these approaches. Prereq: Graduate standing.

Urban Culture and Teaching: The City as a Teacher (3) This course is designed specifically, for educators in the Metropolitan area. Teachers will be introduced to the Metropolitan area and to the changing nature of America. Utilizing urban systems theory in addition to numerous other theories and techniques, teachers will have opportunities to explore the economic, cultural and religious institutions of the city and apply that knowledge by using a theoretical base. The field work will be followed by brainstorming sessions, seminars, guest speakers, and discussions over changes that will be the basis for improved teaching strategies and the development of new multicultural units of study for the urban classroom. Prereq: Graduate standing.

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 one's national selected areas in anthropological and future educational direction. Prereq: Graduate standing.

Education and Society (3) A study of the problems that society confronts with educational systems and the role of education in helping society meet its challenges. Emphasis will be on the interface between the educational institution and the society, the problems being the social fabric. Attention will be given to the mechanisms of change that influence the educational system. Prereq: Graduate standing.

Alternative Strategies for Education (3) An intensive study of the impact of present educational organization and practice on the student and (B) Current alternative proposals for education in terms of specific problems of both the historical development and theoretical working principles underlying the educational school program will be considered as a foundation from which to analyze and evaluate the merit and utility of contemporary proposals. The social and political implications of the models discussed. Prereq: Graduate standing.

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

Conflict and Controversy in Urban Education (1) This course introduces the concepts of multicultural education, including the development of a multicultural curriculum and instruction. Through the study of the importance of education in urban settings, students will be encouraged to develop multicultural perspectives in their teaching and to work toward improving instruction in multicultural settings. Prereq: Graduate standing.

Field Research Techniques in Urban Education (3) This course is designed to enable students to gain experience in the planning and conducting field research in urban settings. Students will be encouraged to design and develop field research designs and learn how to work with data. Prereq: Graduate standing.

Research in Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. An understanding and working knowledge of basic research concepts will be taught. Prereq: Graduate standing.

Anthropology and Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. Prereq: Graduate standing.


Interactional 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 understanding of human interactions, to develop a research and practice program to support school education and future educational development. Prereq: Graduate standing.

Teacher Behavior (3) Emphasis will be placed on current educational practices. Students will be assisted in developing a multicultural outlook on the social, political, and economic factors that influence effective teaching behavior. Prereq: Graduate standing.

Conflict and Controversy In Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. Prereq: Graduate standing.

Models for Teaching (3) Emphasis will be placed on current educational practices. Students will be assisted in developing a multicultural outlook on the social, political, and economic factors that influence effective teaching behavior. Prereq: Graduate standing.

Introduction to the Middle School (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Admission to Graduate College.

Simulation/Gaming Laboratory for Literature (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Admission to Graduate College.

Improvement of Instruction: Special Topics (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Admission to Graduate College.

Trends and Teaching Strategies in Science Education (3) This course is designed for students who wish to assist in the recognition of educational changes and trends in the area of science education. The course will be K-12 and as such is meant to assist students in both elementary and secondary education. Prereq: Graduate standing.

Teaching Adult Literacy (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Graduate standing.

Teaching Adults to Read: A Course In Literacy Training (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Graduate standing.

Curriculum and Instruction (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Graduate standing.

Research in Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. Prereq: Graduate standing.

Cooperating Teachers in Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. Prereq: Graduate standing.

Economics of Education — Special Topics (3) The course provides an in-depth study of educational trends and techniques; to give some understanding of the context of the present situation and trends of educational policy. Prereq: Graduate standing.

Effective Teaching Practices (3) Designed to assist teachers in instructional improvement, the specific focus may be directed to selected subjects. Prereq: None.

Introduction to Teaching (3) Designed for students who wish to assist in the recognition of educational changes and trends in the area of science education. The course is K-12 and as such is meant to assist students in both elementary and secondary education. Prereq: Graduate standing.

Introduction to the Middle School (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Admission to Graduate College.

Teaching Adults to Read: A Course In Literacy Training (3) This course is designed to provide an in-depth study of instructional theory, research, and practice designed to assist teachers in instructional improvement. Prereq: Graduate standing.

Cooperating Teachers in Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. Prereq: Graduate standing.

Economics of Education — Special Topics (3) The course provides an in-depth study of educational trends and techniques; to give some understanding of the context of the present situation and trends of educational policy. Prereq: Graduate standing.

Effective Teaching Practices (3) Designed to assist teachers in instructional improvement, the specific focus may be directed to selected subjects. Prereq: None.

Introduction to Teaching (3) Designed for students who wish to assist in the recognition of educational changes and trends in the area of science education. The course is K-12 and as such is meant to assist students in both elementary and secondary education. Prereq: Graduate standing.

Cooperating Teachers in Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. Prereq: Graduate standing.

Economics of Education — Special Topics (3) The course provides an in-depth study of educational trends and techniques; to give some understanding of the context of the present situation and trends of educational policy. Prereq: Graduate standing.

Effective Teaching Practices (3) Designed to assist teachers in instructional improvement, the specific focus may be directed to selected subjects. Prereq: None.

Introduction to Teaching (3) Designed for students who wish to assist in the recognition of educational changes and trends in the area of science education. The course is K-12 and as such is meant to assist students in both elementary and secondary education. Prereq: Graduate standing.

Cooperating Teachers in Urban Education (3) This course is designed to examine ways in which educational research is conducted. Emphasis will be placed on the role of research in community life and on the contributions to and influences of changes in culture. Prereq: Graduate standing.

Economics of Education — Special Topics (3) The course provides an in-depth study of educational trends and techniques; to give some understanding of the context of the present situation and trends of educational policy. Prereq: Graduate standing.

Effective Teaching Practices (3) Designed to assist teachers in instructional improvement, the specific focus may be directed to selected subjects. Prereq: None.

Introduction to Teaching (3) Designed for students who wish to assist in the recognition of educational changes and trends in the area of science education. The course is K-12 and as such is meant to assist students in both elementary and secondary education. Prereq: Graduate standing.
course will be understanding the adult learner, de-
veloping instructional objectives and procedures for teaching adults to read and identifying and de-
coding the social, economic and political aspects of aviation and space flight through the use of microcomputers.

8580 LOGO and the K-12 Curriculum (3) This course will focus on the philosophy of computer science and the program of instruction. It provides an introduction to LOGO language for microcomputers and its applications to the K-12 curriculum. The history, phi-
losophy, and text/graphics operations of LOGO are covered. Prerequisites: Admission to Graduate College. Implementing LOGO into the various areas of the elementary and secondary school curriculum. Prereq: Graduate Standing. No previous computer knowledge or experience is required.

8590 Individualized Instruction with Microcom-
puters (3) This course is designed for teachers and other educational personnel who will be using microcomputers to improve instructional activities in elementary and secondary school. Graduate majors will review their own instructional goals and practices and compare these with the opportunities presented by microcomputers.

8560 Computer Assisted Learning in the Class-
room (3) A course designed to assist teachers in using the computer as an aid in instructional activities.

8569 Developing Computer Instructional E-
dware (3) This course is designed for teachers and other educational personnel who will be using computer-assisted instructional software for micro-computers. The concepts of task analysis, moti-
vation, computer graphics, student-computer interaction and evaluation of instructional content and setting support materials are considered. Various authoring systems will also be examined. Prereq: TED 8580 or equiva-

tent or familiarity with the BASIC language.

8930 Individualization of Instruction (3) The course includes the following topics: individualization.

8940 Creativity (3) This course focuses on defining and identifying the characteristics of gifted

8990 Introduction to the Education of the Gifted (3) This course is designed to increase teacher awareness of the social, emotional and educational needs of gifted students. The course is designed to increase teacher awareness of the social, emotional and educational needs of gifted students. Prereq: Admission to Graduate College. One year teaching experience.

9110 Principles and Practices in Elementary Reading (3) This is an introductory graduate course on the philosophy of education, organization, evaluation, and methods and materials for teaching reading from Kindergarten through the sixth grades.

9120 Teaching Reading in the Secondary School (3) An advanced course in reading for

elementary or secondary teachers. Major emphasis

9110 Principles and Practices in Elementary Reading (3) This is a beginning graduate course for elementary and secondary teachers and is open to any student who has graduate standing. Major emphasis is on the philosophy of education, organization, evaluation, and methods and materials for teaching reading from Kindergarten through the sixth grades. Prereq: Admission to Graduate College.

9360 Seminar in Applications of Non-Verbal

Communication Theory (3) An introduction to non-verbal communication as it relates to the study of interpersonal speech communication. (Cross-listed with Psychology 3760 or Communication 3750.) Prereq: Graduate standing or instructor permission.

9490 Individual Factors/Variables Affecting

Teaching and Learning (3) This course involves the student's study of the various factors/variables that affect teaching and learning, including the rationale, the various models, and the application to the class-

room. Prereq: Admission to Graduate College.

9550 Seminar in Foreign Languages (3) This supervised practicum is designed for students who have completed at least one graduate reading course in a foreign language. Each student will conduct self-directed research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent), TED 8810 (or equivalent), and permission.

9560 Seminar in Applications of Non-Verbal

Communication Theory (3) An introduction to non-verbal communication as it relates to the study of interpersonal speech communication. (Cross-listed with Psychology 3760 or Communication 3750.) Prereq: Graduate standing or instructor permission.

9990 Seminar in Foreign Languages (3) This supervised practicum is designed for students who have completed at least one graduate reading course in a foreign language. Each student will conduct self-directed research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent), TED 8810 (or equivalent), and permission.

NON-DEGREE AREAS AND COURSE DESCRIPTIONS

Art

Graduate Art courses are offered to fulfill requirements for a minor field or as cognate or selected courses 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.

Engineering Mechanics

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

Industrial Systems Technology

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

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.
DEGREE REQUIREMENTS

Home Economics

Home Economics graduate offerings at UNO may be used as a minor in [HFD, Nutr. Mgt., or Textiles] 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 requirements for a graduate degree in the Home Economics program. Students applying for the graduate degree in Home Economics are required to present evidence of formal training in the Social Sciences. These courses must include a minimum of 9 hours in the Natural and 6 hours in the Social Sciences.

Students must have completed an undergraduate degree in Home Economics or a related field with a minimum GPA of 2.5. The following courses must be taken, unless completed within the last 5 years:

- 3 credits in Microeconomics
- 3 credits in Macroeconomics

A meeting with a representative from the appropriate department in Lincoln will be held to determine eligibility for the graduate program.

Admission to the graduate program in the College of Home Economics requires presentation of the baccalaureate degree from an accredited institution. Departmental policies will be determined by the program.

Application for a graduate degree program 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 appropriate program faculty. For a graduate degree in Home Economics, it will be necessary to have completed a minimum of 12 hours in the Social Sciences, including human development and the family.

Interdepartmental area offers graduate work leading to the Master of Science or Master of Arts degree. These courses may be taken in any one of the four cooperating departments. Under any option not more than one-half of the total credits may be completed in major subject matter areas.

A bachelor’s degree in Home Economics is necessary for admission of applicants for study in Textiles, Clothing and Design and leading to a Master of Science degree in Textiles, Clothing and Design. Students applying for study in this area must hold a Bachelor of Arts degree from an accredited institution and by completing a minimum of 12 hours exclusive of freshmen courses in Biochemistry, in Microbiology, and in Physiology for a total of 30 semester hours.

Deficiencies as assessed on an individual basis may be removed concurrently with graduate studies.

Courses are scheduled as special seminars or workshops according to program and enrollment. Prereq: Graduate standing and departmental permission.

Option 11 is selected the required minor must be completed in a department other than those in the College of Home Economics. However, if Option II is selected the required minor must be completed in another department in the College of Home Economics, which can be an approved graduate program at UNO.

Separate programs leading to the Master’s degree are offered by the Department of Human Nutrition and Food Service Management, Department of Human Development and the Family, and the Department of Textiles, Clothing and Design.

Human Nutrition and Food Service Management — Candidates for the Master of Science degree in Human Nutrition and Food Service Management must hold a Bachelor of Science degree or a Bachelor of Arts degree from an accredited college and have completed graduate preparation equivalent to that required in the Basic General Education Core in Home Economics plus at least 10 hours of graduate courses in Biochemistry, Physiology, and Psychology for a total of at least 18 hours in Human Nutrition and Food Service Management, 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 degree in a related field and have completed graduate preparation equivalent to that required in the Basic General Education Core in Home Economics plus a major of at least 18 hours exclusive of freshmen courses in Human Development and the Family or the equivalent from Psychology, Educational Psychology or Sociology.

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 coursework beyond the freshman level in Textiles, Clothing and Design or equivalent from a related field such as Art or Architecture. Undergraduate coursework 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. Application for the graduate degree in Home Economics must be completed in consultation with graduate studies.

Education and Family Resources — Education and Family Resources is included in the Interdepartmental area.

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.
4900/8906 Independent Study (1-3) Guided independent study and research under tutorial supervision repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

4920/8926 Seminar (1-3) A detailed study of narrower phases of literature, language, or culture. Prereq: Permission of the instructor.

4010/8016 Advanced Conversation and Composition (3) For graduate students with major interest in conversation in grammar, and composition. Prereq: Graduate status.

4100/8106 Theater of The Golden Age (3) Foremost Spanish dramatists and plays of the sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina, and Calderon de la Barca. Prereq: For 4100, Spanish 3170 or permission of the instructor.

4130/8136 Novel of The Golden Age (3) Study of some masterpieces of the sixteenth and seventeenth centuries, including such works as Lazarillo de Tormes, La Celestina, and Don Quixote. Prereq: For 4110, Spanish 3170 or permission of the instructor.

4160/8166 Latin American Literature of the Twentieth Century (3) Critical and analytical study of representative works of Latin American literature, poets, and essayists from modernism to the present. Prereq: Spanish 3220 or permission of the instructor.

4180/8186 Chicano Literature and Culture (3) Study of the representative works of Mexican American, Spanish American, and other Hispanic writers, along with their cultural and historical antecedents. Does not apply toward foreign language requirements. Prereq: Permission of the instructor. Same as English 4180/8186.

4200/8206 Latin American Novel (3) Study of representative novels and novelists of the nineteenth and twentieth centuries, including such authors as Llosa, de la Maza, and Cortazar. Prereq: Spanish 3200 or permission of the instructor.

4240/8246 Generation of 1898 (3) Examination of the ideology, philosophy, and literary approach of the generation of 1898 and its contemporary authors. Prereq: Spanish 3200 or permission of the instructor.

4350/8356 Latin American Short Story (3) Representative stories of the nineteenth and twentieth centuries. Prereq: Spanish 3210 and 3250 or permission of the instructor.

4550/8556 Management of Dress (3) Ideologies, techniques, trends, and influences of the major fashion personalities of the nineteenth and twentieth centuries. Prereq: Spanish 3180 or permission of the instructor.

4560/8566 Novel of Spain (3) Analytical study of the representative Spanish novels of the nineteenth and twentieth centuries from P. A. de Alarcón to García Lorca. Prereq: Spanish 3180 or permission of the instructor.

4580/8586 Introduction to Linguistics (3) An introduction to the concepts and methods of the scientific study of language; includes language description, the history of linguistics, and the relationship of language to society and man. Prereq: 4560, junio standing or permission of the 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.

4920/8926 Seminar (1-3) A detailed study of narrower phases of literature, language, or culture. Prereq: Permission of the instructor.

4950/8956 Pro-Seminar (1-3) A detailed study of narrower phases of literature, language, or culture. Prereq: Permission of the instructor.

Home Economics

Consumer Science and Education

1500 Special Topics (1-3) Prereq: 12 hours home economics or permission of departmental chairman.

Human Development and the Family

4630/8636 The Child and Family in the Community (3) Study of legislation and agencies pertaining to children and families. Field trips and observation through contacts with community services. Prereq: permission of instructor.

4720/8726 Field Work (1-3) (A) Experiential fieldwork in an area of specialization within the department, for example: early childhood, per­sonal education, family therapy, gerontology, marriage and family counseling. Prereq: 12 hours of human development and the family, or permission of instructor, as required for individual options.

4740/8746 Independent Study (1-5) Individual projects in research, literature review or creative production may or may not be an extension of the major department and will be evaluated by departmental faculty members. Prereq: major department or closely related areas and permission.

Human Nutrition and Food Service Management

4710/8716 Quantity Purchasing (3) Purchasing of food, implementation of cost control methods in food service departments. Prereq: 3 hrs HNFM, 3 hrs HDVF, 6 hrs natural science or permission of instructor.

4720/8726 Field Work (1-3) (B) Experiential fieldwork in an area of specialization within the department, for example: early childhood, personal education, family therapy, gerontology, marriage and family counseling. Prereq: 12 hours of human development and the family, or permission of instructor, as required for individual options.

4730/8736 Organization and Administration of Food Service (3) Principles of organizational and administrative techniques as applied to institutional food service departments, using a systematic management function. Prereq: Nutri. Mgt. 4700, personnel management, lab. 3. 3. 8400 Advanced Foods (3) Chemistry of food; an advanced study of the objective and subjective methods of evaluation of food quality and char­acteristics. Prereq: HNFM 2410, 12-14 hours natural science or permission of instructor.

4560/8566 Novel of Spain (3) Analytical study of the representative Spanish novels of the nineteenth and twentieth centuries from P. A. de Alarcón to García Lorca. Prereq: Spanish 3180 or permission of the instructor.

4580/8586 Introduction to Linguistics (3) An introduction to the concepts and methods of the scientific study of language; includes language description, the history of linguistics, and the relationship of language to society and man. Prereq: 4560, junior standing or permission of the 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.

4920/8926 Seminar (1-3) A detailed study of narrower phases of literature, language, or culture. Prereq: Permission of the instructor.
conflicting needs. Topics to be studied include objections to the space program and responses to them, spinoff benefits, space industrialization, planetary and interstellar exploration, space colonies, search for life elsewhere, and other related theoretical issues. Prereq: Graduate standing or permission of instructor.

3150/8155 Modern Development 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, atom, superfluidity, ultra large magnetic fields, space plasma, nuclear fusion power, etc. Designed for updating physical science concepts for science majors and for science teachers. Prereq: General Physical 1120 or 2120.

8165 Current Topics in Science (1-3) T. 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: Consent of instructor.

3750/8755 Electricity and Magnetism I (3) An advanced discussion of electrostatics and magnetostatics as well as a.c. theory. Prereq: Calculus, Physics 3250, or permission.

3760/8765 Electricity and Magnetism II (3) A course in electrodynamics. Topics include maxwell's equations and methods for their solution, boundary conditions, as well as energy, momentum, and transformations of the fields. Prereq: Physics 3750.

3950/8955 Thermodynamics and Statistical Mechanics (3) The topics of thermodynamics include various equations of state, first and second laws of thermodynamics, thermodynamic potentials and their uses. In addition, an introduction to classical statistical, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena is given. Prereq: Calculus and Physics 2120 or 2160.

4050/8056 Solid State (3) This is a non-lab theory course involving the theory as recently developed covering the behavior of materials in the solid state, primarily concerns energy levels, wave mechanics, optical and electrical phenomena. It is designed for students who have had courses in general physics and mathematics through calculus. It may be taken for graduate credit by engineers, for example, it exists work is completed. Prereq: General Physics and Mathematics through Calculus.

4070/8076 Special Theory of Relativity (3) This course includes the general historical background, the important experiments, Lorentz transformations, covariant formulation, applications to electromagnetism and mechanics and philosophical implications of special relativity including relationship to the general theory. Prereq: Calculus and Physics 1120 or 2120.

4120/8126 Atomic and Molecular Physics (3) This course consists of applications of quantum theory to atomic and molecular physics. Topics include the Schrödinger theory, solutions of square wells and simple harmonic oscillator potentials and barriers, one electron atoms, atomic spectra, line structure, orbit angular momentum, selection rules, magnetic effects, ionic and covalent bonding, molecular spectra, and the Raman effect. Prereq: Physics 1110-1120 or 2110-2120 and Physics 2250 or the equivalent.

4140/8146 Nuclear Physics (3) An introduction to the principles and methodology of modern nuclear physics including nuclear structure, radioactivity, isotopes, tracer techniques, radiation health physics, and related topics. Prereq: Physics 2160.

4250/8256 Astrophysics (3) Physics and the theory of the physical characteristics, distribution, and space motion of stars and stellar systems; internal structure, evolution, and death of stars structure of stellar atmospheres; interstellar matter and gaseous nebulae; structure and origin of the universe. Prereq: Physics 2130 or 4120 and Calculus I and II (Physics 1350 is helpful).

4950/4960-4956-4966 Problems in Physics (Each 1-3) Individual laboratory and/or theory work in some field of energy. Prereq: General physics and permission of instructor. For 4960: 4950 and permission of instructor.
INDEX

Please note: The specific requirements for the various graduate programs offered and the descriptions of courses offered by those programs can be found in the section entitled DEGREE/CERTIFICATE REQUIREMENTS AND COURSE DESCRIPTIONS. See the Table of Contents for page numbers for the desired programs.

A
Absences from class 16
Accredited standing 11
Accreditation - Graduate Studies 12
Administration - University Officers 11
Administration - University Officers 11
Admission Classification 28
Admission Classification 28
Unconditional 28
Unqualified 28
Unqualified 28
Temporary 29
Admissions Procedures 27
Summary 7
Deadlines 27
Procedures for International Students 21
Unconditional Admission 28
Provisional Admission 28
Unqualified Status 28
Temporary Admission 29
Admission Fee - Graduate 18
Advanced Knowledge Tests, Required 29
Advisors 13
Affirmative Action 15
Animals, Use of in Research 17
Appeal Procedures 36
Applications 18
For Admission to Graduate Study 7
For Candidacy for the Degree 30
For the Degree 9
Applicants, Required 29
Assistantships, Graduate 22
Teaching, Research, Laboratory 22
Attendance in Class - Policy 16
Audit Fee 19
Audit Regulations 19
Board of Regents 11
B

C
Calendar for 1987-88 10
Campus Computing 18
Candidate Admission to 30
Cap and Gown 9
Rental Fee 20
Career Development 24
Career Placement Services 24
Change of Program 24
Change of Program 24
Change of Program 24
Class Attendance 16
Commencement (consult calendar) 10
Comprehensive examinations 32
Computing Services 18
Conferences of Degrees 32
Counseling Services 25
Course Load Policy 35
Courses for Graduate credit 28
Course offerings (consult table of contents, course offerings) 3
Credit/No Credit Option 35

D
Dean for Graduate Studies 11
Dean and Research 15
Degree, Candidacy for 30
Degree programs - Directory 6
Degree Requirements 30
Degree Requirements 30
Enrollment (consult table of contents) 2
Degree, Time Limit 34
Degrees, Conferring 32
Degree Offered - Summary 5
Departments offering graduate instruction 15
Departments offering graduate instruction 15
Deposits 18
Development Services 24
Development Services 24
Discrimination - Policies 16
Dropping courses 45

E
Employment services, part-time 25
Equal Opportunity 15
Ethical Conduct 17
Examinations for Graduate Students 29
Graduate Record Examination (GRE) 29
Graduate Management Admission Test (GMAT) 30
The Test of English as a Foreign Language (TOEFL) 30
Miler Analyses Test (MAT) 30

F
Faculty, Graduate - Definition 12
Fees 36
Financial Aid 22
Fellowships 22
Full-Time Graduate Student Status 35

G
Grades, Appeal of 36
Grades, Required Performance 33
Graduate Assistantships 22
Graduate Credit - courses offered 35
Graduate Credit - numbering system 35
Graduate Faculty - Definition 12
Graduate Faculty Members 12
Graduate Faculty Members 12
Graduate Management Admission Test (GMAT) 30
Graduate Program Committees 13
Graduate Programs Offered - Directory 6
Graduate Record Examination (GRE) 29
Graduate Studies 15
Graduate Studies 15
Administration 15
History and Purpose 15
Organization 12
Graduation Checklist 9

Public Affairs and Community Service
David W. Hinton, Dean
Philip E. Secret, Associate Dean
Donald Dendinger, Chairperson, Goodrich Program
Burton J. Reed, Chairperson, Public Administration

University Library
Robert S. Runyon, Director
Janice Boyer, Assistant Director
Ella Jane Bailey, Chairperson, Technical Services

Engineering and Technology
Stanley Liberty, Dean
Harold Davis, Associate Dean
Joseph V. Benak, Vice Chairperson, Civil Engineering

Home Economics
Gary L. Carrico, Vice Chancellor
Neil A. Morgenstern, Assistant Vice Chancellor, Director of Facilities, Management and Planning

EDUCATIONAL AND STUDENT SERVICES
Richard E. Hoover, Vice Chancellor
Joe Davis, Assistant Vice Chancellor
Donald Sheehan, Assistant Vice Chancellor

OTHER ADMINISTRATIVE FUNCTIONS
Louis F. Carter Jr., Director, University Relations
Richard M. Snowden, Director, Campus Computing
Jim Leslie, Director, Alumni Association

TBA — Chairperson to be announced at a later date.