Graduate Academic Catalog (1987-88)

University of Nebraska at Omaha
This Graduate Catalog is provided by the Graduate Faculty of the University of Nebraska at Omaha in the hope that it will be a source of information to you on the graduate programs available through our University. We are proud of our University and of its programs. We encourage you to become acquainted with us and with the many resources available to the community through the University. 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

Margaret P. Gessaman, Ph.D.
Dean, Graduate Studies and Research
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BASIC INFORMATION
AND
SUMMARIES

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 24 semester 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 an educational experience as a basis for a career in professional music.

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.
SUMMARY OF ADMISSION PROCEDURES

1. In order to receive graduate credit for courses taken at the University of Nebraska-Omaha, 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. Students should contact the Office of Graduate Studies for specific information.

2. In addition to the points listed above, international students must provide the Office of Admissions with letters of recommendation, statements of available financial support and evidence of ability to speak and write the English language (TOEFL).

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, as well as the critical information, as presented in the Graduate Catalog. Students should contact their advisors or the departments 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 necessarily offer to the program 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 Catalog is a description of the courses offered for the academic year, but may not be considered an offer or contract. University regulations, including the policies on admission, transfer of course credits, and registration, are subject to change at any time in the discretion of the University. The University expressly reserves the right to change, phase out, or discontinue any program. Every reasonable effort will be made to enable students who maintain continuous enrollment to pursue 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 every 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 the Graduate Catalog. 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 of Nebraska-Omaha, 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 above, international students must provide the Office of Admissions with letters of recommendation, statements 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.
- 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 an official transcript of all previously taken undergraduate or graduate coursework sent directly to the Office of Admissions.
- Read this Graduate Catalog carefully to learn what the department/area may require for admission in addition to the admission application form and transcripts.
- Arrange to have the official scores on all required aptitude or advanced knowledge tests (GRE, GMAT or MAT) sent to the Office of Graduate Studies; 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 recommendations by the department/area Graduate 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 the admission process is complete. The Certificate of Admission is issued by the Office of Admissions and is the only recognized document confirming admission status at the University.

SUMMARY OF PROCEDURES FOR GRADUATE STUDENTS

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

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

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

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

5. All students are required to pass final comprehensive examinations before receiving a degree. The final comprehensive examinations are normally taken near the end of the degree program. Students should notify the department/area Graduate Program Committee at the beginning of the semester in which they plan to take the examinations.

6. During what is expected to be the semester of graduation and prior to the posted deadline students should make application in the Office of the Registrar for the conferment of the degree. If application is made in one semester, but requirements are not met in that semester, reapplication must be made in the next semester; no additional fee is required to reactivate the application.

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

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

GRADUATION CHECKLIST

- Apply for graduation. See Academic calendar in this catalog or contact the Registrar's Office for deadline. If you apply for graduation and do not complete all of the requirements in time to graduate, notify the Graduate Studies Office as soon as possible so that your name can be removed from the graduation list. You must reapply for graduation the following term; no additional fee is charged to reactivate your application.
- Make arrangements to take final comprehensive examinations with your department.

ADD THE FOLLOWING IF YOUR APPROVED PROGRAM INCLUDES 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.
- 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 twelve working days before graduation. The thesis binding fee must be paid in the Registrar's Office prior to depositing the thesis/field project.

UNIVERSITY OF NEBRASKA AT OMAHA

Dr. Frank M. W. Royce, Chairman
Law & Society, Accounting
ACADEMIC CALENDAR

First Semester, 1987-88

July 2
Last day for submitting credentials for admission to Graduate Studies for First Semester 1987-88.

July 3
Holidays. University closed.

Aug. 17-21
Registration.

Aug. 24
First semester begins at 7:00 a.m. both day and evening classes.

Aug. 24-28
Change of class schedules.

Aug. 28
Last day until 4:00 p.m. for: Add a course to student's schedule; Add an "audit" course. Change to "CR/NC" grade in a course.

Sept. 7
Vacation; no classes. University closed.

Sept. 8
Vacation; no classes.

Oct. 2
Last day for filing applications for degrees to be conferred in December.

Nov. 6
Last day until 4:00 p.m. for: Drop a course with a grade of "W"; Change a course to "audit" credit. Change from "CR/NC" to grade registration in a course.

Nov. 25-29
Thanksgiving vacation; no classes.

Dec. 3-7
University closed.

Dec. 10-14
Classes resume at 7:00 a.m.

Dec. 24-Jan. 3
University closed.

Inter-Session

Dec. 28-Jan. 9
Special course offerings.

Second Semester 1987-88

Jan. 1
Holidays. University closed.

Jan. 11-15
Second Semester begins at 7:00 a.m. both day and evening classes.

Jan. 11-15
Change of class schedule.

Jan. 15
Last day until 4:00 p.m. for: Add a course to student's schedule; Add an "audit" course. Change to "CR/NC" grade in a course.

March 4
Last day for filing applications for degrees to be conferred in May.

March 20-27
Spring Vacation; no classes.

March 30
Classes resume at 7:00 A.M.

April 1
Last day until 4:00 p.m. for: Drop a course with a grade of "W"; Change a course to "audit" credit. Change from "CR/NC" to grade registration in a course.

April 7
Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 1988.

April 30
Honors Day.

April 30
Last day of classes.

May 3-6
Finals.

May 7
Commencement.

May 9
Last day for submitting credentials for admission to Graduate Studies for the First Summer Session 1988.

May 30
Memorial Day; University closed.

Summer Session 1988

May 16-July 1
Evening Session "A".

June 8-9
Registration.

June 10
Last day for submitting credentials for admission to Graduate Studies for Second Summer Session 1988.

June 13-July 15
First Summer Session.

June 20
Change of class schedule.

June 25-Aug. 12
Evening Session "C".

July 2
Holidays. University closed.

July 8
Last day for filing applications for degrees to be conferred August 20, 1988.

July 18-Aug. 19
Second Summer Session.

July 25-Aug. 12
Last day for submitting credentials for admission to Graduate Studies for the Fall Semester 1988-89.

Summer Commencement.

*The above dates are subject to change.

UNIVERSITY OF NEBRASKA AT OMAHA

ADMINISTRATION

UNIVERSITY OF NEBRASKA

THE BOARD OF REGENTS

Robert Keeloot, M.D.
Grand Island

Christa Seudler, O.N.L. Student Rep.

James H. Moyer, Omaha (Vice Chairman)

Nancy Hock, Nebraska City

Ronald R. Wukens, Ph.D.
President

The University of Nebraska

ADMINISTRATION

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Gary L. Carico, M.B.A.
Vice Chancellor for Business and Finance

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Director, Intercollegiate Athletics

Otto F. Bauer, Ph.D.
Vice Chancellor for Academic Affairs

Richard E. Hoover, Ph.D.
Vice Chancellor for Educational and Student Services

Louis F. Cartier, Jr., M.A.
Director, University Relations

John M. Newton, Ph.D.
Dean

College of Arts and Sciences

Stanley L. Liberty, Ph.D.
Dean

College of Engineering and Technology

Richard B. Flynn, Ed.D.
Dean

College of Education

Larry R. Trussell, Ph.D.
Dean

College of Business Administration

Alan S. Hackett, Ph.D.
Dean

College of Continuing Studies

Oscar Peterson, Ph.D.
Dean

College of Liberal Arts and Sciences

Robert R. Hinton, Ph.D.
Dean

College of Education and Technology

Richard B. Flynn, Ed.D.
Dean

College of Business Administration

Alan S. Hackett, Ph.D.
Dean

College of Continuing Studies

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David W. Hinton, Ph.D.
Dean

College of Public Affairs and Community Service

Karen Craig, Ph.D.
Dean

College of Home Economics

David A. Shadrac, D.M.A.
Dean

College of Fine Arts

Margaret P. Gessman, Ph.D.
Dean

Graduate Studies and Research

Richard S. Rumon, M.L.S.
Director

Library

COLLEGES

University of Nebraska at Omaha
ADMINISTRATION OF GRADUATE STUDIES

The administrative Office of Graduate Studies on the UNO campus is located in Room 204 of the Eppley Administration Building. The office of the UNO Dean for Graduate Studies and Research, special information material and copies of all graduate regulations 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 (UN-L 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 1800 Members of the Graduate Faculty.

The University of the Board of Regents state that the Executive Vice President and Provost of the University of Nebraska shall serve as Dean of the University-wide Graduate College and as presiding officer of the Graduate Faculty and councils thereof. The legislative and academic authority of the Graduate Faculty is vested in the Executive Graduate Council, comprising 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 and Research administers graduate programs and policies on that campus; serves as presiding officer of 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 is an advisory body to the Graduate Studies and Research, coordinates the graduate studies on the UNO campus and recommends to the Executive Graduate Council actions affecting students and programs on more than one campus. This Council consists of fifteen elected faculty members and three graduate student members. Specific responsibilities of the Dean of Graduate Studies and the Graduate Council may be found in the "Organization of Graduate Studies: University of Nebraska at Omaha."
GENERAL INFORMATION

UNIVERSITY OF NEBRASKA AT OMAHA

GRADUATE STUDIES AT UNO: HISTORY AND PURPOSE

For the more than seventy-five years since its founding in 1908, the University of Nebraska at Omaha, then as the Municipal University of Omaha and the University of Nebraska at Omaha, has provided Omaha, the state of Nebraska, the nation with men and women of sound intellectual training and preparation for life. Its goal for its students, To earn a living and live a cultured life not as two processes, but as one, has been its guide over the years.

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

In 1968 the Municipal University of Omaha was merged with the University of Nebraska and became the University of Nebraska at Omaha. In 1971 the Graduate College of the University of Nebraska was formed to govern graduate studies throughout the University of Nebraska. Since 1968 the University of Nebraska at Omaha has been authorized to offer five additional professional Master's degrees. In 1974 the cooperative program with UNL leading to the Ph.D. in three areas of Psychology was approved.

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, practice, research and special problems courses, and the supervision of theses or special projects. Thus they promote the spirit of free investigation in the various disciplines and, at the same time, serve to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society.

ACCREDITED STANDING

The 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, 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, national origin or religious, sex, national origin, age, handicap or other characteristic which would constitute a violation of Federal, State or local law.
University Campus Computing

The Office of Campus Computing is responsible for managing all facets of academic and administrative computing on the UNO Campus. The Campus Computing staff consists of fifteen full-time employees and thirty-four part-time student employees. Offices are located in 110 Eppler Administration Building, 554-2495.

The UNO Campus offers a full range of automated data processing services to students, faculty and staff. Continual upgrading of computing capabilities provides UNO with modern up-to-date equipment and techniques. Interactive computing, computer graphics and computer-assisted analysis/research are a part of virtually all fields of study and administration.

The academic computing capability centers around three major systems: two VAX 11/780 computers with 12 megabytes of memory each, and a PDP 11/64 with 1 megabyte of memory. Additionally, UNO contracts with the University of Nebraska Computing Services for time on their IBM 3081 computer located in Lincoln. Also available to students and faculty are two microcomputer labs - one equipped with Zenith microcomputers and one with Apple/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 our computers to satisfy the many and varied academic pursuits on campus. All of our academic computing capability is provided at no cost to the students and faculty.

There is a total of 273 open access computer terminals located in the various buildings on campus for use by students and faculty. These rooms are in the basement of the College of Business Administration (Fogler), in the first floor of the Science Hall Building, and in the second floor of the Peter Kiewit Conference Center. Consultants are available in the Office of Campus Computing to assist students in applying the computer to their classroom needs.

Funding for Graduate Student Research

An essential part of every graduate program is learning to use the tools of research, both scholarly and applied. Graduate students seeking funding for their research project should first inquire whether their department or college has funds available for that purpose. Information on other sources such as the Graduate Committee on Research and funding agencies outside the University can be obtained from the Office of Grants Development, 505 Eppler Administration Building.

Student Organizations

A wide variety of student organizations make it possible for students to find activities to fit their own interests and abilities. Among the many student organizations are departmental, honorary, professional, student government and service groups. Professional memberships and honorary organizations not only provide students with social contacts with other students but also give them members practical understanding of their chosen fields. For further information about student organizations, students are advised to contact the Office of Graduate Studies, individual departments, and/or the Office of Student Activities.

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, books, supplies, food or special services not listed in this schedule.

Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students availing themselves of the delayed billing option must familiarize themselves with the due dates, as published. Note: Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor the late payment penalties. Students in need of financial aid must apply through the Office of Financial Aid. Applications for financial aid should be made at the earliest possible time.

Courses which are added or registrations which occur after the completion of the fourth week of classes must be paid in full prior to processing by the Office of the Registrar. Students waiting until the last due date for payment of tuition and fees to register or add courses will be required to pay the late registration fee or charge of program fee, whichever is applicable, and the late payment fee.

With the exception of the Bookstore, the University does not accept bank drafts for payment of any financial obligation.

Registration is not complete until cleared by the Cashier. Failure to pay tuition or fees when due, or to pay charges for books or 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. Failure to do so may prohibit registration for the current and future semesters.

Graduate Admission Fee (Graduate College):

<table>
<thead>
<tr>
<th>Tuition:</th>
<th>Per Semester Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident of Nebraska</td>
<td>Undergraduate: $41.75</td>
</tr>
<tr>
<td>(see residency statute)</td>
<td>Graduate: $51.75</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>Undergraduate: $112.25</td>
</tr>
<tr>
<td>Per Student Credit Hour</td>
<td>Graduate: $122.25</td>
</tr>
<tr>
<td>through Off-Campus Program</td>
<td>$52.00</td>
</tr>
<tr>
<td>Program offered through</td>
<td>$62.00</td>
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<tr>
<td>the University of Omaha</td>
<td></td>
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<tr>
<td>at the College of Business and Administration and the College of Student Organizations</td>
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</tr>
</tbody>
</table>

Audit Fee:

The audit "not for credit" fee is set at one-half of the resident undergraduate or graduate tuition rate. 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. With the exception of the Bookstore, the University does not accept bank drafts for payment of any financial obligation.

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>Fees</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1010 Laboratory Fee</td>
<td>$20.00</td>
</tr>
<tr>
<td>Biology Laboratory Fee</td>
<td>$50.00</td>
</tr>
<tr>
<td>Chemistry Laboratory Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Communication 3110, Laboratory Fee</td>
<td>$15.00</td>
</tr>
<tr>
<td>Electrical Laboratory, 11060</td>
<td>$15.00</td>
</tr>
<tr>
<td>English Laboratory</td>
<td>$10.00</td>
</tr>
<tr>
<td>Foreign Languages: All 1000</td>
<td>$5.00</td>
</tr>
<tr>
<td>Foreign Languages: All 2000</td>
<td>$10.00</td>
</tr>
<tr>
<td>French Laboratory</td>
<td>$10.00</td>
</tr>
<tr>
<td>Geography 1060, 1060, 1070, 1070, 1070, 1070 Laboratory Fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>Geography 1100 Field Trip</td>
<td>$4.00</td>
</tr>
<tr>
<td>Geography 1170, 1184, 2754, 2764, 3104, 3450, 4310 Laboratory Fee</td>
<td>$5.00</td>
</tr>
<tr>
<td>Geology 1710, 3100 Field Trip</td>
<td>$3.00</td>
</tr>
<tr>
<td>Instructional Technology Core</td>
<td>$5.00</td>
</tr>
<tr>
<td>Math 113, 1132</td>
<td>$5.00</td>
</tr>
<tr>
<td>Microcomputer Laboratory Fee</td>
<td>$15.00</td>
</tr>
<tr>
<td>Music</td>
<td>$5.00</td>
</tr>
<tr>
<td>Music Equipment and Maintenance Fee</td>
<td>$15.00</td>
</tr>
<tr>
<td>Applied Music: Mandatory for employment in voice and all instruments</td>
<td>$5.00</td>
</tr>
<tr>
<td>One semester credit hour</td>
<td>$55.00</td>
</tr>
<tr>
<td>Two semester credit hours</td>
<td>$110.00</td>
</tr>
<tr>
<td>Three semester credit hours</td>
<td>$155.00</td>
</tr>
<tr>
<td>Four semester credit hours</td>
<td>$180.00</td>
</tr>
<tr>
<td>Five semester credit hours</td>
<td>$205.00</td>
</tr>
<tr>
<td>Physics 1000, 1050, 1150, 1160, 1754, 3500, 3520, 3540, 3560, 3560, 3560, 3560, 3560 Laboratory Fee</td>
<td>$30.00</td>
</tr>
<tr>
<td>Preparation of Instructional Materials LS-48708876</td>
<td>$5.00</td>
</tr>
<tr>
<td>Printing 1050, 4510, 4530, 4540, 4540 Laboratory Fee</td>
<td>$20.00</td>
</tr>
<tr>
<td>Psychology 1060, 1062A</td>
<td>$5.00</td>
</tr>
<tr>
<td>Psychology 2050</td>
<td>$15.00</td>
</tr>
<tr>
<td>Special Education 4510, 4520, Basic Practicum 4520, 4520, 4520</td>
<td>$15.00</td>
</tr>
<tr>
<td>Clothing and Design 2350</td>
<td>$10.00</td>
</tr>
<tr>
<td>Vocational Education 1180, 1170, 1180, 2290</td>
<td>$10.00</td>
</tr>
</tbody>
</table>
| Other laboratory/special instructional fees may be charged as authorized by the University. Please refer to the semester class schedule to determine which of the above fees are related to specific courses.

Conference, non-credit and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved.
University Program and Facilities Fee (UPPF): Undergraduate or Graduate
All students, undergraduate or graduate, full or part-time per semester........................................ $ 49.00
The UUPP 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 to support student activities
suggested by Fund-A Student Fees.
The Fund-B of the UPPF is designated for services, staff salaries, maintenance of facilities and related
to the Nebraska State Student Association (NSSA) Fee.
The NSSA fees are for membership of 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.

Special Service Fees:
Transcripts of Academic Record—First copy.......................................................... $ 3.00
Additional copies—Same day.............................................................. 1.00
Thesis Binding—per copy........................................................................ $ 7.50
Change of Program Fee (per each class changed)................................................ $ 5.00
Cap and Gown Rental (to be arranged through the Bookstore)............................. TBA
Graduation Fee.................................................................................................. $ 3.00
Degree in Absentia (payable in addition to Graduation Fee).............................. $ 2.00
Returned Check—per check............................................................................ $ 8.00

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. Alumnae 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 Bulletin Mailing Fee
3rd class mailing......................................................................................... $ 16.00
1st class mailing......................................................................................... $28.00
Bullets may be mailed to your home address. Bulletin is published bi-weekly from October
through December, weekly from January through August.

Extra Confidential Fee (over initial ten sets)......................................................... $ 2.50
Extra sets (each)........................................................................................... $ 2.50

Late Fees and Penalties
Late Registration (day or evening classes)......................................................... $10.00
Late Payment of Tuition Billing................................................................... $30.00
Renewal of Canceled Registration............................................................... $10.00
Replacement of ID/Activity Card.................................................................. $ 5.00

Deposits
Key (per key with authorization/refundable).................................................... $ 5.00
ROTC Uniform Deposit—Refundable......................................................... $15.00

Regular Semester

Percent

Period of Drop/Withdrawal

Percent

Refunded

Chargeable

Before first official day of semester
100%

0%

First week of classes
100%

0%

Second week of classes
75%

25%

Third week of classes
75%

25%

Fourth week of classes
50%

50%

Fifth week of classes
50%

50%

Summer Sessions (5 and 6 Week)

Percent

Before first official day of semester
100%

0%

First three days of classes
100%

0%

Remainder of first week
50%

50%

Second week of classes
25%

75%

Third week of classes
0%

100%

Summer Evening and Special Contract (7 and 8 Week)

Percent

Before first official day of semester
100%

0%

First three days of classes
100%

0%

Remainder of first week
75%

25%

Second week of classes
50%

50%

Third week of classes
25%

75%

Fourth week of classes
0%

100%

Non-Credit and Special Courses (10 Weeks or More)

Withdrawal before classes start
100%

0%

Withdrawal before first week elapsed
50%

50%

Withdrawal before 2 weeks elapsed
20%

80%

Withdrawal after 2 weeks elapsed
0%

100%
TRAVELING SCHOLAR PROGRAM

As a member of the Mid-American State Universities Association, the University of Nebraska at Omaha participates in the MASUA Traveling Scholar Program. The 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 at MASUA universities are eligible to participate in this program for up to two semesters or three quarters. The student’s participation is initiated by the student’s major adviser who initiates the proposal for the appropriate number of hours and pays fees at the home university.

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 Governors of Arizona State University, graduate students meeting the regular in-state requirements of the University of Nebraska will be considered as in-state students at Arizona State University, with respect to admission requirements, tuition and fees, scholarships, fellowships and assistantships and other benefits normally available to Nebraska residents.

FINANCIAL AID FOR GRADUATE STUDENTS

Presidential Graduate Fellowships

Each year two Presidential Graduate Fellowships are awarded to graduate students who are in the final year of their programs. The Fellowships are designed to allow outstanding students to concentrate their efforts on the completion of the research and/or teaching aspects of their courses. Interested students should make inquiries in their department/area about the availability of Presidential Fellowships in their specific fields of study. 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 students with opportunities for supervised educational experiences at the graduate level. Interested students should make inquiries in their department/area about the availability of Assistantships in their specific fields of study. Information about criteria, nomination procedures and selection procedures are available at the Graduate Studies Office, Eppley Building, Room 204.

Policy Governing Graduate Assistantships

1. Academic Standards
   - The Graduate Assistantship is intended as an award to students who have demonstrated high levels of academic performance.

2. Eligibility
   - Graduate Assistantship positions are available to full-time graduate students who are enrolled in degree programs at the University of Nebraska at Omaha.

3. Appointment
   - Assistantship appointments are made on a semester basis, with the duration of each appointment determined by the department or program. Assistantships may be renewed for subsequent terms.

4. Duties
   - Assistantships are intended as awards for teaching and research activities.

5. Stipends
   - The stipend for a Graduate Assistantship is intended as a compensation for the services performed.

6. Review and Renewal
   - Assistantship appointments are reviewed by the department or program at the end of each academic year to determine eligibility for renewal.

7. Termination
   - Assistantships may be terminated for reasons related to academic performance or for administrative reasons.

8. Other Benefits
   - Assistantships include access to graduate-level courses, participation in graduate programs, and opportunities for professional development.

9. Grievance Procedure
   - Graduate students who believe they have been treated unfairly in the selection or termination of their assistantship may file a grievance with the Graduate Division.

10. Contractual Obligations
    - Assistantship recipients are expected to fulfill their contractual obligations as outlined in the Assistantship Agreement.

11. Confidentiality
    - Assistantship recipients are required to maintain confidentiality regarding confidential information.

12. Intellectual Property
    - All intellectual property generated during the tenure of the Assistantship is the property of the University of Nebraska at Omaha.

13. Compliance
    - Assistantship recipients are required to comply with all University policies and procedures.

14. Application
    - Applications for Assistantships are accepted on a rolling basis.

15. Selection
    - Assistantships are awarded based on academic qualifications, potential for professional development, and contribution to the University community.

16. Review
    - Assistantship agreements are reviewed annually by the department or program to ensure compliance with the Assistantship Agreement.

17. Cancellation
    - Assistantships may be cancelled by the University for reasons related to academic performance or for administrative reasons.

18. Revision
    - This policy is subject to revision by the Graduate Division.

19. Effect
    - This policy takes effect immediately and supersedes all previous policies.

20. Contact
    - For questions regarding this policy, contact the Graduate Division at 402-554-2835 or graduate@unomaha.edu.

For more detailed information, please refer to the University of Nebraska at Omaha Graduate Division website.
recommendation prior to being sent to the Vice Chancellor for Academic Affairs. Assistantships supported by outside funding will normally have outside funding. 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. Information and application forms are available from the Office of Graduate Studies, Room 204, Eyepple Administration Building.

Scholarships

Phi Delta Gamma, a national sorority for office students specializing in business, offers scholarships by completing a placement form which should be filed by the March 1 deadline. More information and application forms are available from the Office of Graduate Studies.

Tuition


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of Graduate Assistant lines from one department to another.

Counseling Services

Counseling services are provided to assist UNO students in their educational, emotional and personal development. The goal of the Counseling Center is to use all available resources to assist students in making full use of the opportunities in their academic and personal lives. Students use the Counseling Center to talk about concerns with courses, educational-vocational planning, family and personal problems, finances and financial difficulties.

The Counseling Center is staffed with professionally trained and experienced counselors. Students may come to the center for counseling during the day or evening hours. Students are assured that their privacy will be respected. Conversations with a counselor are held in confidence.

The Counseling Center is also able to assist students in a clearer understanding of themselves. Testing is provided by the UNO Testing Center after consultation with a counselor. Interpretations and evaluations of the results of these tests are provided by counselors from the center.

The Counseling Center is open during the day and evening hours with the exception of weekends and announced university holidays. The telephone number is 554-2409.

Testing Center

A variety of testing services are available through the UNO Testing Center, located in Room 113, Eyepple Administration Building. Among these are the Graduate Record Examination, Miller Analogies Test, Graduate Management Admission Test, Test of English as a Foreign Language and Law School Admission Test. Graduate students also utilize the Testing Center's aptitude, interest and psychological tests. These tests are administered on a daily basis with the recommendation of the Counseling Center.

No graduate credit may be earned by examination; however, students applying for entrance into graduate school should consider Credit by Examination for completion of undergraduate requirements where possible. These may be earned through the Department of Psychology and the Center for Psychological Studies. Students may be tested for credit in many subject areas, and UNO's Special Examination Program which involves challenging credit for any undergraduate courses taught at the University by taking a departmental examination.

Student Part-Time Employment Services

UNO students seeking part-time employment should visit Student Employment Services in 113 Eyepple Administration Building. Employment counselors are available to assist students in obtaining employment, matching the students' career interests where possible. Employment is based on developing job search skills and interviewing techniques with the Student Employment Office acting as a liaison between employer and student.

Students seeking part-time and full-time summer jobs may also utilize our services. Summer job listings are available and a Summer Jobs Fair is also announced each year.
provides students with an opportunity to meet and interview with interested employers on campus and assists employers in locating students for various summer jobs.

Current listings of available jobs are posted on bulletin boards near the Student Government Office in the Milo Bail 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 and provides free First Aid treatment for minor illnesses and emergency accidents with referral function of this special program.

Health Services: UNO Health Services, located in 132 Milo Bail Student Center, 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 and hearing tests, throat cultures for possible strep infection, a tuberculosis skin testing program, plus scheduled clinics and programs on selected topics of interest. Health services is open Monday through Thursday from 8 a.m. to 5 p.m. and Friday from 8 a.m. to 4 p.m. A physician's assistant is available to students for free consultation, diagnostic treatment and follow-up care Monday through Friday from 9 a.m. to 5 p.m. Application must be made through Health Services for temporary or permanent handicapped parking permits.

Student Health Insurance: All UNO students carrying 6 or more hours have the option of contacting for accident and sickness insurance through a group plan made available by the University with a commercial insurance carrier at reduced premium. If you are not protected for accident and sickness under a policy held by your parents, or one that you have purchased privately, you are encouraged to participate in this or some other health care plan. A brochure describing coverage and benefits is available from the Health Center. Coverage for injury and sickness not due to University negligence is the full responsibility of each student.

Women's Services: This program provides counseling services to women students at UNO as well as current information and materials concerning women's issues and problems. The coordination of programs and services, which focus on the educational, social and professional needs of women, is a function of this special program.
II. Temporal Admission

When unexpected circumstances preclude processing applications for Unconditional, Provisional, or Unclassified admission, the Dean for Graduate Studies and Research may issue a Temporary Admission. A student enrolling with temporary admission must, within the first eight weeks of the semester, submit all required admission documents to the Office of Graduate Studies for provisional admission or advance to the status of classified status. Students who fail to submit such materials will be suspended from graduate study. Students seeking admission to a degree program must realize that even if all admission materials are presented, the Graduate Program Committee evaluating these materials may deny admission to the program with or without appeal. In such cases, the determination may be made as to whether the student may continue graduate study in the Unclassified status or will be disenrolled from all graduate study.

II. II. Graduate Students from Another Campus of the University of Nebraska

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

REQUIRED APTITUDE OR ADVANCED KNOWLEDGE TESTS

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

A student with Unclassified status is not required to submit scores on aptitude or advanced knowledge tests. Admission requirements for each degree program are determined by the cognate Graduate Program Committee. It is recommended that students seek the advice of the appropriate department before applying. Upon receipt of the scores, the Graduate Program Committee will determine if the student is to be admitted to the degree program, the student’s degree status, and the student’s percent of graduate study completed. The GRE, GMAT, and MAT are administered at many sites throughout the nation and the world. At UNO, the tests are given under the supervision of the Testing Services Center. Information on test dates and fees is available from the Testing Services Center or from the Office of Graduate Studies. A fee is charged and advanced registration is required. No changes can be made in the test scores. A student may retake any of the tests at any time, provided that each test is taken at least one week apart.

Graduate Record Examination

Unless 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 departmental areas. Students should contact their department for information regarding the required test.

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 accept the GRE in lieu of the general aptitude portions of the GRE.

Miller Analogy Tests

With departmental approval, graduate students in a number of programs may take the Miller Analogy Test in lieu of the Graduate Record Examination advanced aptitude portions. Applicants for admission into graduate programs in Counseling and Special Education must take the MAT 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 TOEFL Examination at the University of Nebraska at Omaha, is available at the UNO Testing Center at frequent intervals.

REACCEPTION TO GRADUATE STUDIES

Anyone who has previously been enrolled as a graduate student at UNO, but who has not been in continuous enrollment, must be re-admitted to graduate studies before being readmitted, with the exception of students recommended for readmission by the Dean for Graduate Studies. In order to be readmitted, the student must complete a request for admission form indicating the department/area to which he/she wishes to be admitted. Changes in policy and/or category of admission may be accomplished subsequent to readmission. Students are advised to complete the readmission process prior to registration.

Guidelines for Construction of a Plan of Study

Every plan of study should conform to all policies of the UNO Graduate Faculty and the cognate graduate department(s). The following general guidelines should aid students and advisors in constructing a plan of study. The UNO Testing Center. In addition, a local administration, the TOEFL Examination at the University of Nebraska at Omaha, is available at the UNO Testing Center at frequent intervals.

1. A plan of study should be made for all graduate students prior to registration.
2. A plan of study must be approved by the cognizant Graduate Program Committee prior to any course being taken toward the completion of the degree.
3. All students must submit a final copy of the approved plan of study prior to any activity being taken toward the completion of the degree.
4. All plans should contain a coherent plan of study leading to the degree that conforms to all policies of the UNO Graduate Faculty that the last 18 hours of the approved plan of study should be completed with courses taken at the University of Nebraska following admission to candidacy for the degree. In particular, no degree can be awarded in the same semester in which the student
5. All persons who attend classes at the University must be admitted to the University; they are:
6. The scores on all required aptitude or advanced knowledge tests are on file in the Office of Graduate Studies. It is the responsibility of the student to follow all regulations contained in the catalogue, "Instructions for the Preparation of Theses and Dissertations." A copy of which can be obtained in the Office of Graduate Studies.
7. All students must defend their theses in an oral examination before the supervisory committee. The student must have a copy of the Graduate Degree Completion Form from the Office of Graduate Studies to take to the oral examination. When the final approved form of the thesis is complete, the supervisory committee will sign each copy of the form and each copy of the acceptance page for the thesis.
8. 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 borne by the student. The last copy of the thesis is to be submitted to the Office of Graduate Studies on the student's behalf. 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-like projects are of the same caliber of scholarly work as a thesis. The student will research, develop and analyze a topic approved by the Supervisory Committee. Departments seeking to use the thesis equivalent category must apply to the Graduate Council for approval. The following guidelines are to ensure that these projects are, so far as possible, equivalent to thesis in scope, evaluation, and process.

1. The work on the project should commence at least 12 months prior to the anticipated date of graduation.
2. The student 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. the approval of a supervisor/committee member.
   b. a proposal to be approved by the supervisory committee.
FINAL COMPREHENSIVE EXAMINATIONS

A final comprehensive examination is required of all candidates for the Master’s degree. These examinations are based on material that has been presented in the candidate’s graduate program and are administered by the candidate’s department (or area). These examinations, unless otherwise approved, must be taken in the semester in which the candidate expects to graduate. The comprehensive examinations should be taken near the completion of the candidate’s program, and should measure the candidate’s knowledge and ability to synthesize knowledge in the analysis of questions involving more than one concept. For those candidates writing a thesis, the examination is a written one. For those candidates writing a thesis, the final comprehensive examination may be either written or oral, at the discretion of the departmental committee. If the comprehensive examination is oral, a written summary of the examination must be prepared, and a copy of the written summary must be kept on file in the Graduate Office.

The comprehensive examinations are to be administered by the department/area Graduate Program Committee. If the comprehensive examination is written, it will be arranged by the department/area Graduate Program Committee. If the comprehensive examination is oral, it should be arranged at the time of the oral examination, or at the time of the one-half of the examination may be taken by the student. The one-half of the examination may be taken by the student.

If the student has a defined minor, the minor advisor may require that the student take a comprehensive examination on the minor field. If such an examination is given, it should be taken at a date arranged at the convenience of both the student and the minor advisor 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, and students should check with their advisors early in their programs to determine the appropriate departmental policy. For the administration of the comprehensive examinations, students register for the comprehensive examinations in the same manner as for the final examinations.

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

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

QUALITY OF WORK STANDARDS

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

1. Failure to maintain a “B” average in all graduate work taken as part of the degree program.
2. Receiving at least nine hours of graduate credit with the grade of “D” or “C” – any type (transfer, underclass credits, or courses included in the plan of study) with an average of 3.0 or less.
3. Receiving a grade of “D” or “F” in any course in the student’s major field of study in any course included in the plan of study.

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

1. A student who has been dismissed for failure to meet the quality of work standards may petition the cognate Graduate Program Committee for any of the following:
   a. Unconditional reinstatement to the degree program (if appropriate).
   b. Reinstatement with Unclassified status in order to receive specific courses, with possible readmission to the degree program.
   c. Reinstatement with Unclassified status.

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

TRANSFER OF GRADUATE CREDIT

Approval of transfer of graduate credit for work course taken at another accredited university (including extension credit but not including continuing education credit) is made at the time of admission to candidacy. Transfer of course credit from another institution is allowed by the cognate Graduate Program Committee, subject to a written evaluation of the course and approved by the Dean for Graduate Studies and Research. All work accepted for transfer of credit must have been completed within the prescribed time limits for graduate degrees and is subject to restriction if previously used to satisfy requirements for another graduate degree.

Transfer of Credits Taken Outside the University of Nebraska: Up to 1/3 of the course work required for a graduate degree program may be accepted by the Graduate Program Committee. Final approval is made by the UNO Dean of Graduate Studies and Research. All other policies regarding graduate programs will apply.

TRANSFER OF GRADUATE CREDIT

Approval of transfer of graduate credit for course work taken at another accredited university (including extension credit but not including continuing education credit) is made at the time of admission to candidacy. Transfer of course credit from another institution is allowed by the cognate Graduate Program Committee, subject to a written evaluation of the course and approved by the Dean for Graduate Studies and Research. All work accepted for transfer of credit must have been completed within the prescribed time limits for graduate degrees and is subject to restriction if previously used to satisfy requirements for another graduate degree.

Incompletes

Purpose

The grade “Incompletes” ("I") is to be used by an instructor at the end of a term to designate incomplete work in a course. It should be used only when a student, due to extenuating circumstances such as illness, military service, hardship or death in the immediate family is unable to complete the requirements of the course in the time of the student's commitment. An incomplete course should be given only when the student has substantially completed the major requirements of the course. The instructor must judge each situation as to whether an "I" is appropriate.

In most cases an incomplete for those courses excluded from the one-semester requirement. Otherwise, it reverts to the grade of "F".

Removal

Instructor 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 of Nebraska, they must supervise the make-up work and report the permanent grade. In the event that the instructor is unable to complete the student's application for removal of an "I," the department/person shall remove the suspense of the incomplete and turn in the permanent grade for the student's record. Incomplete courses that are part of the degree requirements (except those taken in the final semester) shall be removed at least twelve working days before the degree. Forms should be made available to the instructor for the removal of an incomplete course taken prior to the time of the student's application.

Forms will be turned into a grade of "F" by the Office of Graduate Studies. Any extensions to the one-semester requirement must be approved by the Dean for Graduate Studies and Research. Forms must be completed and turned in to the Office of Graduate Studies. In a limited number of cases, some departments will allow longer than one semester for the processing of forms. The Office of Graduate Studies has the right to remove, in whole or part, the “Incompletes” on its records. Incompletes in thesis or research courses must be removed within two years of the date when the thesis or research work was awarded unless approval is granted by the Dean for Graduate Studies and Research for an extension and the student remeets for the credit.

Accrual of Two or More Incompletes

Two or more “I” grades (excluding thesis research courses) will result in a stop enrollment for any courses; the stop enrollment will remain 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 degree must be completed within six consecutive calendar years. The first day of class of the earliest course which appears in this text...
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. Coursework which would be over ten years old cannot be submitted for validation.

If students wish to use an outdated course in a plan of study, they have two options available: (1) retake the course, or (2) obtain written permission to update the course from the department involved, the constituent Graduate Program Committee and the Dean for Graduate Studies and Research. Updating can usually be done by taking a special examination or the current semester's final examination in the course. The grade of the examination must be filed with the Office of Graduate Studies and must be a grade of "B" or higher; otherwise, the student shall be required to retake the course or to substitute another course in the plan of study. In some graduate programs some special exceptions are made with approval of the Graduate Council. Consult with the Graduate Program Committee.

OTHER POLICIES

Auditing Courses Offered for Graduate Credit

In order to audit courses for graduate credit, students must be admitted to graduate studies. Permission of the adviser and approval of the instructor of the course should be obtained prior to registration. Students registered for credit may change to audit registration during the first eleven weeks of the semester or during the first half of a class if the instructor's perogative to determine privileges, including examinations connected with the course. Students registered for credit may change to audit registration during the first eleven weeks of the semester or during the first half of a class if the instructor's permission is obtained prior to registration. Approval of the request must be obtained from the Dean for Graduate Studies and Research prior to submitting the withdrawal form to the Office of the Registrar. Any refund of fees will be posted in the Cashier's Office and published in the class schedule. Failure to withdraw according to this procedure may cause forfeiture of refunds and in appropriate posting of grades.

Change of Graduate Degree Program

Students who wish to change their graduate degree programs should consult with the Graduate Program Committee of the department in which they are seeking admission and to the Dean for Graduate Studies and Research. Students who have two or more grades of "Incomplete" on their records are not eligible to change degree programs.

Course Loads for Graduate Students

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

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

Courses Offered for Graduate Credit

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

A numbering system is used to indicate the availability and level of courses for graduate credit, as follows:

3--8-5 (e.g., 31108115) or 8--8-6

Courses with these numbers are open to both undergraduate and graduate students. Only 3--5 and 8--6 receive graduate credit; it is expected that students enrolled for graduate credit will do work at a higher level than that which is expected of undergraduate students in the same course. Some seniors, with special permission, may enroll for graduate credit in such courses; see "Admission to Graduate Studies at UNO - Special Permission to Register for Graduate Credit".

8--0 or 9--

Courses with these numbers are open to graduate students only.

Credit/No Credit Option for Courses Offered for Graduate Credit

The UNO Graduate Faculty does not, in general, allow the Credit/No Credit option for courses offered for graduate credit. However, each Graduate Program Committee shall have the right to designate courses such as practice, independent studies or research courses on which this option could apply. In those instances, the availability of this option will be designated by the Graduate Program Committee. The grade of "Credit" is interpreted to mean the equivalent of a grade of "B" or better and is not calculated in the grade point averages.

Dropping Courses

Students can not 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 signatures of the adviser and the UNO Dean for Graduate Studies and Research prior to the request for drop is submitted to the Office of the Registrar. Approval of the request must be obtained from the Dean for Graduate Studies and Research prior to submitting the withdrawal form to the Office of the Registrar. Any refund of fees will be posted in the Cashier's Office and published in the class schedule. Failure to withdraw according to this procedure may cause forfeiture of refunds and in appropriate posting of grades.

Withdrawal from All Courses

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

GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS CONCERNING GRADUATE STUDENTS

Appeal of General Academic Matters Related to Student Programs

A. Graduate students holding admission with unclassified status in the Graduate College, admission with a Master's objective or admission with a doctoral objective (but prior to the appointment of a doctoral supervisory committee) should appeal as follows:

1. Initially, the appeal should be submitted to the student's adviser.

2. If denied, the appeal should be submitted to the department's Graduate Program Committee for the student's graduate program.

3. If denied, the appeal should be submitted 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).

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

1. Initially, the appeal should be submitted to the student's adviser.

2. If denied, the appeal should be submitted to the student's supervisory committee.

3. If denied, the appeal may be submitted to the Graduate Council for the campus administratively responsible for the student's graduate program.

4. 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 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 registrations on another campus, the graduate council of the campus administratively responsible for the program will constitute the appeal board. 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 exams the following additional standards apply:

1. In the case of the 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 registrations on another campus, the graduate council of the campus administratively responsible for the program will constitute the appeal board. 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.

2. In all cases, appeals should be made in writing to the appropriate adviser, committee, or council.
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.

In those cases involving an appeal of termination of program, initiation of the appeal, in writing, by the student must be filed within thirty days following the student’s receipt of the official written notification by the Office of Graduate Studies.

E. 1. There is no absolute right of appeal to Committee III of the Executive Graduate Council. Committee III will accept appeals only in those cases where in the exercise of its sole discretion it shall first find that one or more of the following grounds for accepting the appeal exist:
   a. That the campus Graduate Council has violated some element of fair procedure (example: has failed to allow the parties concerned to present their cases fully to their campus Graduate Council);
   b. That the campus Graduate Council has failed to examine or give adequate weight to important evidence relevant to one party’s position;
   c. That the campus Graduate Council has given undue weight to evidence not pertinent to the case; or
   d. That some gross miscarriage of justice would be perpetrated if the decision of the campus Graduate Council is allowed to stand.

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

2. Appeals to Committee III of the Executive Graduate Council must be made in writing and must specifically outline the grounds for appeal. Such appeal must be made within 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 grade appeal procedures approved by the Graduate Faculty or by their duly elected representative Graduate Council for that campus, and who shall forward the appeal to the student-faculty committee or council which is designated to hear graduate-level course grade appeals on that campus. Since awarding grades in courses occurs at the individual campus level, the decision of the campus committee or council designated to hear the case on behalf of the campus Graduate Faculty shall be final and is not subject to further appeal.

The initiation of the appeal in writing by the student must be filed within six weeks following receipt of the grade from the Office of the Registrar.
DEGREE/CERTIFICATE REQUIREMENTS AND COURSE DESCRIPTIONS

BIOLOGY

PROFESSORS: Bragg, deGraw, Egan, Lunt, Sutherland
ASSOCIATE PROFESSORS: Fawcett, French, Gelsow, Hayhome, Ingham, Mosher, O'Dell, Sharp, Stasik, T. Weber, Weberg
ASSISTANT PROFESSORS: Aultinger, Engelmann, Nordahl

To enter a degree program with a major in biology, an applicant must normally present 24 semester hours 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 18 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 6 cr hrs 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.

3230/3235 Microtechnique (3) A course in the techniques of fixation, dehydration, staining, clearing and mounting biological material in the manufacture of microscope slides. Prereq: Two years of biological sciences.

3530/3535 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 1750.

3630/3635 Plant Anatomy (3) A study of the cells, tissues, and organs of vascular plants with particular emphasis on the internal anatomy of seed plants.

3730/3735 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.

3740/3745 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.

4100/4106 Biogeography (3) This course is intended as an introduction to Biogeography, the
4120/8126 Problems in Ecosystem Management (5-6) An individual study of the application and evaluation of methods used for managing native and restored ecosystems. Prereq: Graduate standing in Biology and permission of the instructor. Biology 3340/8345 recommended.

4310/8316 Microcomputers in Biology (2) A lecture/demonstration survey of microcomputer applications in biology and related sciences. Prereq: Three hours of a college-level computer course or written permission of instructor. Grad. standing.

4320/8326 Microcomputers in Biology Laboratory (2) An individual study course in which the student will complete selected programming projects. Prereq: 4310/8316 or concurrent enrollment or written permission of instructor. Grad. standing.

4410/8416 Cellular Biology (4) This course is a comprehensive study of the structure and function of plant and animal cells. Prereq: Biology 1450 or 1750, organic chemistry, or permission of the instructor.

4410/8416 Limnology (4) A study of the physical, chemical, and biological characteristics of natural waters to establish and maintain plant and animal communities in a freshwater environment. Prereq: Biology 1450, 1750, and organic chemistry.

4410/8416 Fire Ecology (3) Study of fire in ecosystems including characteristics of fire, effects on flora, fauna, and the alidotic environment, and use in maintaining native ecosystems. Includes two, one-week field exercises. Prereq: Biology 3340. Graduate standing in Biology or permission of instructor.

4220/8226 Population Biology (4) An examination of topics in population ecology and population biology including selection for different species and groups, mating systems, life history characteristics, and relationship of populations to their ecosystems. Outside research project required. Prereq: Biology 2140 and 3340 or permission of instructor. Graduate standing.

4230/8236 Organic Evolution (3) A study of organic evolution in terms of evidence which supports the theory of descent with modification. Prereq: Biology 1400/1450 or 1750. Grad. standing.

4380/8386 Morphology of Non-Vascular Plants (4) Structural, reproductive, ecologic, and taxonomic organization and characteristics of plant groups including prokaryotes, algae, fungi, and lichens. Prereq: Biology 1400/1450 or 1750. Grad. standing.

4290/8296 Vascular Plant Morphology (3) A survey of the various forms of vascular plants, emphasizing on their comparative anatomy and morphology and their evolutionary relationships. Prereq: Biology 1400/1450 or 1750. Grad. standing.

4340/8346 Mycology (3) A study of the fungi, including their morphology, taxonomy, gross and microscopic anatomy, growth, reproduction and development. Prereq: Biology 1400/1450 or 1750. Grad. standing.

4440/8446 Plant Physiology (4) A study of plant processes and functions with emphasis on integration of structure and metabolism. Prereq: Biology 1450/1750 or equivalent, graduate standing in biology.

4480/8486 General Botany (4) A study of plant structure and function metabolism, growth, genetics and properties of selected groups. Prereq: Biology 1400/1450 or 1750. Prereq: Graduate standing in biology or permission of the instructor.

4640/8646 General Microbiology (4) A study of bacterial structure and function, metabolism, growth, genetics and properties of selected groups. Prereq: Biology 1450/1750 or 1400/1450. Prereq: Graduate standing in biology or permission of the instructor.

4720/8726 Experimental Ecolloogy (2) Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: A course in biology in the graduate level.

4730/8736 Endocrinology (4) A survey of the internal and external control of biological processes. Key concepts include hormones, their synthesis and metabolism, their role in homeostasis, and their control over body functions. Prereq: Biology 1750.

4740/8746 Animal Physiology (4) A comprehensive survey of the function emphasizing mechanisms of regulation and control. Prereq: Biology 1750, vertebrate anatomy, organic chemistry, or permission of the instructor.

4780/8786 Vertebrate Zoology (4) A study of the biology and behavior of vertebrates including the morphology, anatomy, physiology and ecology of vertebrate representatives. Prereq: Biology 4780 or 4950 or permission from instructor.

4790/8796 Mammalogy (4) The biology of mammals, including their evolution, functional and ecological relationships, behavior, behavior and identification with emphasis on the major groups and the mammalian orders. Prereq: Biology 4780 or 4950 or permission from instructor.

4800/8806 Herpetology (4) The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification with emphasis on North American groups. Prereq: Biology 1750.

4850/8856 Developmental Biology (4) A study of the principles of development of multicellular organisms. Emphasis will be given to developmental changes resulting from interactions at the biochemical, cellular, and tissue levels. Prereq: Biology 4800 or 4950.

4840/8846 Vertebrate Zoology (4) A comprehensive study of the invertebrate animals. Prereq: Biology 1450 or 1750.

4910/8916 Proteolysis (4) The biology of protein Protocols, including their morpholgy, physiology, behavior, ecology, distribution, and identification with emphasis on free-living groups. Prereq: Biology 1450 or 1750.

4920/8926 Parasitology (2) Taxonomy, morphology, physiology, life history, parasitism, parasites and hosts, and parasites. Prereq: Biology 1450 or 1750.

4940/8946 Entomology (4) A study of insects and their role in the environment and human society. Prereq: Biology 1450 or 1750.

4950/8956 Vertebrate Embryology and Anatomy (4) Development and physiology of vertebrate embryos. Prereq: Biology 1450 or 1750. Prereq: Graduate standing in biology or permission of the instructor.

4960/8966 Advanced Genetics (4) A survey of the current concepts in genetics with emphasis on new gene concepts, advances in cyto genetics and population genetics, and the application of genetics to other areas of biology. Lecture and discussion of selected readings. Prereq: Biology 2140 or permission of instructor. Graduate standing.

4990/8996 Zoology (4) An introduction to the general biology of animals, including concepts in anatomy, physiology, behavior, ecology, classification and identification emphasis on North American groups. Prereq: Biology 1750.

8010 Seminar in Biology (1-3) A study of current problems in specialization and division of labor in biology. Prereq: Graduate standing in biology. Prereq: Graduate standing and written permission of graduate faculty supervisor.

8020 Independent Research in Biology (1-3) Research work under supervision of a graduate faculty member. Topics may require up to 4 credits for M.A. degree candidates, up to 6 credits for M.S. degree candidates, up to 6 credits for Ph.D. degree candidates. Prereq: Graduate standing and written permission of graduate faculty supervisor.

8030 Advanced Topics in Biology (1-3) Lecture and/or laboratory courses for graduate students designed to provide exposure to biological specialities not offered in the regular curriculum. Prereq: Graduate standing and permission of the instructor.

1800 General Zoology (4) Ad- ditional study of the animals and their communities in the context of their environment and their role in the environment and human society. Prereq: Biology 1450 or 1750. Prereq: Biology 1450 or 1750.

8230 Independent Study in Biology (1-3) An in-depth study of a topic in a limited segment of the biological sciences under the supervision of a graduate faculty member. May be taken more than once for credit up to a total of six credits. Prereq: Graduate standing and written permission of graduate faculty supervisor.

8100 Communities and Ecosystems (3) A study of plant and animal communities and of individual plant and animal species including relationships with the environment and interactions with other species. Prereq: Biology 1450 or 1750.

8200 Plant Ecology (4) Advanced study of plant communities and of individual plant species including relationships with the environment and interactions with other species. Prereq: Biology 1450 or 1750.

8250 Environmental Physiology (3) A detailed study of selected environmental conditions and their effects on the structure and function of organisms. Prereq: Biology 1450 or 1750.

8300 Environmental Physiology (3) A detailed study of selected environmental conditions and their effects on the structure and function of organisms. Prereq: Biology 1450 or 1750.

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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 admission will be granted simply because the indicated points have been achieved.

Students who, through experience or self-study, consider themselves proficient in any of these areas course work may be taken in an area outside the College of Business Administration, subject to advance approval by the Director of Graduate Studies.

42 DEGREE REQUIREMENTS

BUSINESS ADMINISTRATION


ASSOCIATE PROFESSORS: Abdullah, Corcoran, Diamond, V. Johnson, Jones, Kardis, McGeen, Oritman, Olshansky, Pad, Sosin, Spochi, Turner

ASSISTANT PROFESSORS: O'Hara

Core Courses

- BSAD 8000 Quantitative Analysis
- BSAD 8010 Business and Society
- BSAD 8100 Managerial Economics
- BSAD 8200 Financial Accounting
- BSAD 8310 Human Behavior in Organizations
- BSAD 8800 Policy Planning, and Strategy

Option Courses

- Option #1 - Business Administration
  - BSAD 8000 Environment of Management
  - BSAD 8400 Marketing Policies
  - BSAD 8500 Financial Management
  - BSAD 8600 Business Conditions Analysis

- Option #2 - Marketing
  - BSAD 8400 Marketing Policies
  - BSAD 8420 Business Demographics
  - BSAD 8560 Seminar in Marketing
  - BSAD 8520 Research Methods in Economics and Business
  - BSAD 8560 Business Conditions Analysis

- Option #3 - Decision Sciences
  - BSAD 8020 Research Methods in Economics and Business
  - BSAD 8030 Business Information Systems
  - BSAD 8050 Applied Quantitative Analysis
  - BSAD 8600 Business Forecasting
  - ECON 8300 Econometrics
  - BSAD 8900 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 Seminar in Management Information Systems

- Option #5 - Real Estate
  - BSAD 8800 Real Estate and Land Use Economics
  - BSAD 8810 Current Problems in Real Estate and Land Use Economics
  - BSAD 8990 Thesis

- Option #6 - Economics
  - BSAD 8000 Business Conditions Analysis
  - ECON 8326 Natural Resource Economics
  - ECON 8610 Theory of Public Finance
  - ECON 8610 Seminar in Labor Economics
  - ECON 8620 Seminar in Micro Theory
  - ECON 8640 Seminar in Money Theory
  - ECON 8650 Seminar in Research Methods
  - ECON 8680 Econometrics
  - ECON 8910 Business Forecasting
  - ECON 8940 Seminar in Money and Banking
  - ECON 8950 Seminar in International Economics
  - ECON 8960 Seminar in Urban Economics

- Option #7 - Management:
  - BSAD 8000 The Environment of Management
  - BSAD 8350 Seminar in Management
8500 Financial Management (3) Examines basic aspects of managing the financial operations of an enterprise with emphasis on analytical alternative policies for both short and long-term planning, and application and evaluation of various techniques of financial management. Prereq: BUS 3250.

8510 Security Analysis (3) Study of the efficient market, fundamental and technical analysis approaches for the valuation of marketable securities. Methods of analysis are considered for the economy, industry groups, and individual corporations. Prereq: BUS 3250.


8530 Banking and Financial Markets: Structure, Function, and Policy (3) A comprehensive study of the structure and functions of financial firms and markets; recent policies affecting the financial system; proposals for structural

45 BUSINESS ADMINISTRATION

8110 Survey of Accounting (3) The uses of accounting for purposes of control and decisions in business, government, and not-for-profit organizations. This course cannot be used on a plan of study. Prereq: May be taken for credit or no credit. This course is limited to 2 C's in graduate courses in any area.

8170 Quantitative and Statistical Methods for Business Decisions (3) Elementary concepts in quantitative and statistical methodologies. Emphasis is placed on multiplicity of approaches to a wide variety of methods. This course cannot be used on a plan of study. Prereq: May be taken for credit or no credit.

8180 Analytical Foundations of Economics (3) A foundation for modern aggregate theory is examined along with an economic analysis of the business firm, its market structure, production possibilities, and utility choices. Prereq: May be taken for credit or no credit.

8190 Business and Society (3) This course, the student examines the influence of societal forces which produce continued transition in the system of American capitalism. Business philosophy and ethics will be examined within the framework of the general normative values of the society. The student will study the dynamic character of business ethics and the resultant changing patterns of controls and restraints 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 roots of adaptation to change. Prereq: BUS 3210.

8200 Research Methods in Economics and Business (3) A study of current research techniques in business and economics. The student will become familiar with these techniques through text material, laboratory study, and actual applications. Prereq: BUS 3210.


8310 Human Behavior in Organization (3) An interdisciplinary study presenting the major trends represented by a variety of theories and other organizational behavior as well as major concepts and their application in organizational psychology. Prereq: BUS 3210 and written permission of the Graduate Coordinator.

8320 Personnel Administration (3) Extensive treatment of the relevant developing theories, and coverage of current topics, techniques, and procedures that relate to personnel administration and human resource management. Efforts are made to select and present material that relate directly to the practical, applied aspects of resource management and personnel administration, as related to major problems in organizations. Prereq: BUS 3210.

8350 Seminar in Management (3) A student participation course emphasizing current issues and problems and the areas in management theory and practice. Prereq: BUS 3210 and BUS 3250.

8400 Marketing Policies (3) A marketing management approach to the determination of policies employed in marketing problems in monitoring and developing an effective promotional program. Prereq: BUS 3210.

8450 Seminar in Marketing (3) Exploration, study and critical analysis of contemporary marketing problems. Trends, methods and approaches for seminar discussion and written report. Prereq: BUS 3210.

8500 Financial Management (3) Examines basic aspects of managing the financial operations of an enterprise with emphasis on analytical alternative policies for both short and long-term planning, and application and evaluation of various techniques of financial management. Prereq: BUS 3250.

8510 Security Analysis (3) Study of the efficient market, fundamental and technical analysis approaches for the valuation of marketable securities. Methods of analysis are considered for the economy, industry groups, and individual corporations. Prereq: BUS 3250.


8530 Banking and Financial Markets: Structure, Function, and Policy (3) A comprehensive study of the structure and functions of financial firms and markets; recent policies affecting the financial system; proposals for structural

45 BUSINESS ADMINISTRATION

8110 Survey of Accounting (3) The uses of accounting for purposes of control and decisions in business, government, and not-for-profit organizations. This course cannot be used on a plan of study. Prereq: May be taken for credit or no credit. This course is limited to 2 C's in graduate courses in any area.

8170 Quantitative and Statistical Methods for Business Decisions (3) Elementary concepts in quantitative and statistical methodologies. Emphasis is placed on multiplicity of approaches to a wide variety of methods. This course cannot be used on a plan of study. Prereq: May be taken for credit or no credit.

8180 Analytical Foundations of Economics (3) A foundation for modern aggregate theory is examined along with an economic analysis of the business firm, its market structure, production possibilities, and utility choices. Prereq: May be taken for credit or no credit.

8190 Business and Society (3) This course, the student examines the influence of societal forces which produce continued transition in the system of American capitalism. Business philosophy and ethics will be examined within the framework of the general normative values of the society. The student will study the dynamic character of business ethics and the resultant changing patterns of controls and restraints 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 roots of adaptation to change. Prereq: BUS 3210.

8200 Research Methods in Economics and Business (3) A study of current research techniques in business and economics. The student will become familiar with these techniques through text material, laboratory study, and actual applications. Prereq: BUS 3210.


8310 Human Behavior in Organization (3) An interdisciplinary study presenting the major trends represented by a variety of theories and other organizational behavior as well as major concepts and their application in organizational psychology. Prereq: BUS 3210 and written permission of the Graduate Coordinator.

8320 Personnel Administration (3) Extensive treatment of the relevant developing theories, and coverage of current topics, techniques, and procedures that relate to personnel administration and human resource management. Efforts are made to select and present material that relate directly to the practical, applied aspects of resource management and personnel administration, as related to major problems in organizations. Prereq: BUS 3210.

8350 Seminar in Management (3) A student participation course emphasizing current issues and problems and the areas in management theory and practice. Prereq: BUS 3210 and BUS 3250.

8400 Marketing Policies (3) A marketing management approach to the determination of policies employed in marketing problems in monitoring and developing an effective promotional program. Prereq: BUS 3210.

8450 Seminar in Marketing (3) Exploration, study and critical analysis of contemporary marketing problems. Trends, methods and approaches for seminar discussion and written report. Prereq: BUS 3210.

8500 Financial Management (3) Examines basic aspects of managing the financial operations of an enterprise with emphasis on analytical alternative policies for both short and long-term planning, and application and evaluation of various techniques of financial management. Prereq: BUS 3250.

8510 Security Analysis (3) Study of the efficient market, fundamental and technical analysis approaches for the valuation of marketable securities. Methods of analysis are considered for the economy, industry groups, and individual corporations. Prereq: BUS 3250.


8530 Banking and Financial Markets: Structure, Function, and Policy (3) A comprehensive study of the structure and functions of financial firms and markets; recent policies affecting the financial system; proposals for structural
but in no

ASSISTANT PROFESSORS:

ASSOCIATE PROFESSORS:

8720 Systems Analysis and Design
8740 Data Base Management
adminstration of information systems, simula­
tion problems. The course includes computer orienta­
tional and practical experiences in decision sup­

PROFESSORS:

Data Ba se Management Sys­
tems. Emphasis on functional
problems. The course includes computer orienta­
tional and practical experiences in decision sup­

8770 Seminar in Management Information
Systems (3) Current issues, trends, and problems
in information processing are critically examined.
This Seminar focuses on such topics as infor­
mation management, database management, soft­
ware engineering and human-computer inter­
generation languages. Prereq: BA 8000 and DS

8800 Policy, Planning and Strategy
A comprehensive study of business problems, pro­

8550 Seminar In Finance
Theory

46 DEGREE REQUIREMENTS

CIVIL ENGINEERING 47

the degree program is offered by the faculty of
the College of Engineering.

major in Communica­tion are required to comple­
tion of a high order of originality. The research
the completed project must be approved by the
of three different fields.

8710 Structured Software Design
(3) Concepts of software specification and design,
with emphasis on current research and structured de­
velopments in methods, techniques for analy­
ing and modeling distribution and concurrent
software products, integration of process design
and data design through assigned cases and/or
projects. Prereq: BA 8000 and DS 2310.

8720 Systems Analysis and Design
(3) Techniques and methods currently used in
structured systems analysis and design. Conversion of
manual business systems to computerized business
systems. Techniques used in the study of linear
programming, applications of decision making in
conducting systems. Prereq: BA 8000 and BA
5710.

8730 Decision Support Systems
(3) Current applications and practices in decision
support systems applied to the solution of a variety
of business problems. The course includes concepts
and principles of management information systems,
information requirements for decision making,
administration of information systems, simulation
modeling for decision support systems, and applica­
tion projects. Prereq: BA 8000 and DS 2310.

8740 Data Base Management
(3) A study of Data Base Management Systems.
Emphasis is on data base modeling, data administra­
tion, strategic data planning and application develop­
ment. Prereq: DS 2310 and BA 8000.

CIVIL ENGINEERING

Master of Science

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

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

ANNUAL REQUIREMENTS

1. CIVIL ENGINEERING 111
2. CIVIL ENGINEERING 3450
3. CIVIL ENGINEERING 8470
4. CIVIL ENGINEERING 8550
5. CIVIL ENGINEERING 8800
6. CIVIL ENGINEERING 8900

For more information, please contact the Civil Engineering Department.
The student's plan of study must be approved by the student's committee and may include provisions for a minor or area studies. Every plan of study must be designed to meet the requirements of the major option or the non-thesis option.

Thesis option:
Successful completion of 24 semester hours of coursework, plus a thesis (6 credit hours) based on a proposal approved by the student's committee. The student may take a written comprehensive examination covering his or her major emphasis and minor or area studies.

Non-thesis option:
Successful completion of 36 semester hours of coursework, at least 18 hours of which must be in courses open only to graduate students. No more than 12 hours from outside the department may be counted toward requirements for the degree. In lieu of a thesis, an independent research or creative project, based on a proposal approved by the student's committee, may be formulated in writing, video, or like a written comprehensive examination covering the student's major emphasis and minor or area studies.

8016 History of Mass Communication (3) The American mass media from 17th Century origins to present, with emphasis on mass communication as a reflection of culture and social and political history, and their relationships to current mass media issues. Prereq: Graduate standing and major/minor in Communication or instructor's permission.

8116 Rhetorical Theory and Criticism (3) Rhetorical theory and criticism, emphasizing ways of evaluating and evaluating communication. Prereq: Graduate standing, six hours of speech communication.

8176 Organizational Communication (3) Communication processes and interpersonal interactions within and between various types of organizations. Theoretical and practical implications of feedback and procedures for communication producing and preventing organizational ills will be emphasized. Prereq: An undergraduate major in Communication or instructor's permission.

8226 Literary Aspects of Journalism (3) Survey of the journalists' writings of prominent American newspaper writers through microform discussions, plus creative writing assignments.

826 Public Relations (3) A study of the principles, problems, and techniques of public relations in relation to the responsibilities of the public relations function through lectures, discussions and problem analysis.

826 Public Relations Case Studies (3) Analysis, discussion and critique of actual public relations problems, relating to public relations and the law, consumers, investors, employees, media and other publics. Prereq: COMM 4220 or permission.

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

8346 Broadcasting History and Regulation (3) A study of broadcasting in the United States through our regulatory history.

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

8376 Communication Workshop (3) A workshop in contemporary communication theory and research.

8386 Film Theory and Criticism (3) Study of major trends in film criticism and theory in Europe and America, with concentration of analysis of selected films. Prereq: BHC 2030 or permission of instructor.

8464 Media and Society (3) The study of their interaction with the government and the public, with emphasis on ethical considerations.

8466 Communications Law (3) A discussion of law, court decisions, constitutional issues and regulations that affect the mass media, with emphasis on libel, privacy, confidentiality of reporters' sources, and government regulation of print, press/fair trial, commercial speech, broadcast regulation and intellectual property.

8526 Theories of the First Amendment: Speech and Press (3) An examination of freedom of speech and the press, with particular attention to freedom of the mass media and the many attempts of censorship. The course will address the role of the media as a bulwark of freedom and press and the pressures on the media to yield to societal pressures.

8556 Nonverbal Communication (3) A study of nonverbal communication in face-to-face, small group, organizational, and mass media settings. Reading, research, and writing on nonverbal encoding and decoding.

8625 Forensic Linguistics (3) To provide student planning to teach speech in high school of college with the special training in the analysis of language characteristics and their application to legal arguments.

9046/9056 Seminar in Mass Communication (1) A seminar: 1) an introduction to the theoretical perspective and the current issues in mass media, particularly their interaction with government and the public, or 2) an introduction to the theoretical perspective and the current issues in mass media, particularly their interaction with government and the public.

9101 Introduction to Research in Communication (3) Philosophy of scientific investigation, including process and products, in comparison to other ways of knowing: research methods, design, and procedures for communication studies. Focus will be on the highest quality research for the highest quality. Prereq: Senior standing.

9266 Theories of Mass Communication (3) A study of the theories of mass communication in the system of the United States and the role of mass communication in society. Prereq: COMM 4910 or permission.

9326 Theories of Mass Communication (3) A study of the theories of mass communication in the system of the United States and the role of mass communication in society. Prereq: COMM 4910 or permission.

9356 Mass Communication and Public Policy (3) A study of the social, political, and economic effects of mass communication in the U.S., with emphasis on public policy and public opinion, and the nature, function and measurement of public opinion.

9466 Mass Communication and Public Policy (3) A study of the social, political, and economic effects of mass communication in the U.S., with emphasis on public policy and public opinion, and the nature, function and measurement of public opinion.

9556 Nonverbal Communication (3) A study of nonverbal communication in face-to-face, small group, organizational, and mass media settings. Reading, research, and writing on nonverbal encoding and decoding.

9625 Forensic Linguistics (3) To provide student planning to teach speech in high school or college with the special training in the analysis of language characteristics and their application to legal arguments.

9703 Communication Research Methods (1) A variable content course dealing with research methods in mass communications, research methodologies, including descriptive, exploratory, and single research methods in depth — e.g., survey, experimental, content analysis, qualitative, legal, etc. Prereq: COMM 4910 or permission.

9800 Independent Research or Creative Project (1-6) A project for credit in the student's special interests in mass communication, to be identified. Prereq: Communication 4910 or permission of instructor.

1000 Topics in Organizational Communication (3) A discussion of current research and practice in organizational communication. Each offering will treat a single aspect of organizational communication in some depth. Prereq: COMM 4910 or permission of instructor.

1316 Planning and Organizational Communication (3) An introduction to the development of a communications program within an organizational setting.

1346 Communication and Organizational Behavior (3) A study of the role and function of communication within organizations and the interpersonal and group interaction within those organizations.

1356 Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of cultural, sub-cultural, ethnic, and race interaction, with the exchange of knowledge to increase these factors.
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.

The last date for completing all requirements for admission to the Department of Counseling and Guidance is April 20 for either summer session and the fall semester, and November 30 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) admission to candidacy and 2) prior to taking the Counseling Practicum or Internship course. 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 special areas include Elementary School Counseling, Secondary School Counseling, College Student Personnel Services, and Counseling in Gerontology. Non-Counseling degree students may obtain an elective option in Effective Human Relations 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, (Gerontology, Psychology 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

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<th>Course</th>
<th>Title</th>
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<tr>
<td>TED 8010</td>
<td>Introduction to Research</td>
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<tr>
<td>COUN 8005</td>
<td>Principles of Guidance</td>
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<td>COUN 8030</td>
<td>Counseling Practices</td>
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<td>Group Techniques</td>
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<td>COUN 8280</td>
<td>Counseling Theories</td>
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<td>COUN 8300</td>
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Electives (6)

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.

Total: 39 hours

Master of Science

Specialization in College Student Personnel Work

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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>TED 8010</td>
<td>Introduction to Research</td>
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<tr>
<td>COUN 8150</td>
<td>The Student &amp; Personnel Work in Higher Education</td>
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Total: 39 hours

Master of Science

Specialization in Gerontology Counseling

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 Studies, which will be awarded upon completion of a degree in Counseling with Specialization in Gerontology. These courses are in accordance 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

Specialization in Counseling and Special Education

The Counseling Degree Program with Specialization in Counseling and Special Education is a cooperative effort of the Counseling and Special Education Department and the Counseling and Special Education Program. The UNO Counseling and Special Education Program offers courses leading to a Certificate in Counseling and Special Education. The University of Nebraska at Omaha requires that all students completing the Certificate Program upon the recommendation of the Counseling and Special Education Program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>TED 8010</td>
<td>Introduction to Research</td>
<td>3 hours</td>
</tr>
<tr>
<td>COUN 8250</td>
<td>Advanced Practicum</td>
<td>4 hours</td>
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<tr>
<td>COUN 8270</td>
<td>Group Techniques</td>
<td>1-3 hours</td>
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Electives (6)

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 school settings.

Total: 39 hours

Master of Science

Specialization in Counseling and Special Education

Counseling and Special Education is a cooperative effort of the Counseling and Special Education Department and the Counseling and Special Education Program. The UNO Counseling and Special Education Program offers courses leading to a Certificate in Counseling and Special Education. The University of Nebraska at Omaha requires that all students completing the Certificate Program upon the recommendation of the Counseling and Special Education Program.
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 proficiency 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 4380 Speech Science I: Speech Mechanisms
   - SPED 4430 Hearing Science
   - SPED 4440 Rhythm and Synchronization
   - SPED 4540 Speech Science II: Experimental and Applied Phonetics
   - SPED 4550 Communication Disorders in the Elementary and Secondary Schools
   - SPED 4510 Basic Clinical Practice in Speech Pathology
   - SPED 4750 Language Disorders in Childhood
   - PSY 2130 Statistics

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

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

   I. Required Courses:
      - SPED 8010 Introduction to Research
      - SPED 8510 Advanced Clinical Practice in Speech Pathology (schools)
      - SPED 8520 Advanced Clinical Practice in Speech Pathology (externship)
      - SPED 8400 Advanced Audiology
      - SPED 8550 Communication Disorders in the Elementary and Secondary Schools
      - SPED 8530 Seminar in Speech Pathology
      - SPED 8990 Thesis (6 hrs.)

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

   III. Practicum and Internship. Practicum and Internship are arranged in cooperation with the Gerontology Program to meet both the Counseling Department and the Gerontology Program requirements for practical and field experience. Usual total hours: 41-48 hours.
COUNSELING AND SPECIAL EDUCATION

54 DEGREE REQUIREMENTS

SPED 8396 Hearing Science .................................................. 3 hrs
SPED 8500 Special Projects .................................................. 1 hr.
TED 8010 Introduction to Research ......................................... 3 hrs.
SPED 8570 Seminar in Special Education ................................. 3 hrs.
SPED 8720 Basic Student Teaching ........................................ 3 hrs.
SPED 8722 Advanced Student Teaching .................................. 3 hrs.

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

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 their graduate study in the area of mental retardation with an emphasis on investigating a research project through the completion of a thesis. Any student seeking an endorsement must complete all certification requirements in addition to the six hour thesis. A written examination is not required of students in this program. Students will be required to answer questions about 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. demonstrate an interest in conducting research in mental retardation after an interview with the advisor, and
4. maintain at least a "B" in each course of the first twelve hours of coursework.

Course Requirements

Students shall complete the following coursework:

SPED 8010 Introduction to Research ......................................... 3 hours
SPED 8100 Psychology of Exceptional Children .......................... 3 hours
SPED 8400 Introduction to Mental Retardation ......................... 3 hours
SPED 8990 Thesis ................................................................. 6 hours

The remaining courses will be selected in consultation with the advisor. Students may take all of their coursework in mental retardation and related courses or may take 15 to 18 hours in mental retardation and 6 to 9 hours in a minor area of interest.

Master of Science: Teaching the Mentally Retarded

The Master of Science degree with a major in Teaching the Mentally Retarded provides opportunities for students who wish to develop and expand their competencies in teaching mentally retarded children and youth. Upon successful completion of the Master of Science degree, the student will be recommended for the State of Nebraska certification in mild/moderately handicapped or severely/multihandicapped teaching. These certification programs are for kindergarten through high school. Students will complete the comprehensive examinations after completing coursework, excluding elective coursework and student teaching. The Master of Science degree in Mental Retardation is a minimum of 36 credit hours.

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. maintain at least a "B" in each course of the first twelve hours of coursework, and
4. hold a Bachelor's degree with a valid teaching certificate or complete the necessary deficiencies to hold certification.

Course Requirements

TED 8010 Introduction to Research ......................................... 3 hours
SPED 8100 Language Development and Disorders for Teachers .... 3 hours
PSY 8500 Psychology of Exceptional Children .......................... 3 hours
SPED 8236 Normal Language Development and Disorders for Teachers or
SPED 8245 Bilingual/Bicultural Language Development and Curriculum 3 hours
SPED 8606 Introduction to Mental Retardation .......................... 3 hours
SPED 8645 Methods and Materials in Special Education ............... 3 hours

or
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 8806 Basic Student Teaching ........................................ 3 hours
SPED 8816 Classroom Techniques for Behavior Control ............... 3 hours
SPED 8820 Basic Student Teaching ........................................ 3 hours
SPED 8900 Theory of Assessment and Diagnosis of Learning Deficits 3 hours

or
SPED 8110 Assessment and Curriculum in Development for the Severely/Profoundly Handicapped 3 hours
SPED 8800 Sensory Disabilities and Physical Handling in the Multiplying Handicapped Child 3 hours

(required only for severely/multihandicapped certification)

*Student Teaching Notes: 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 student teaching at the elementary level. Those students with K-12 certification will select the 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, 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 thesis 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.

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. take 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. have completed a minimum of 12 hours of coursework, 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 of the first twelve hours of coursework.

Course Requirements

TED 8010 Introduction to Research ......................................... 3 hours
SPED 8100 Language Development and Disorders for Teachers .... 3 hours
SPED 8150 Career Development for the Handicapped .................. 3 hours
SPED 8716 Interactions Between Professionals and Parents of the Handicapped 3 hours
SPED 8800 Basic Student Teaching ........................................ 3 hours
SPED 8806 Classroom Techniques for Behavior Control ............... 3 hours
SPED 8820 Educational Strategies for Emotionally Disturbed Children and Adolescents 3 hours
SPED 8830 Practicum in Teaching the Emotionally Disturbed ........... 3 hours
SPED 8840 Advanced Practicum in Teaching the Emotionally Disturbed 3 hours
SPED 8900 Career Development for the Handicapped .................. 3 hours
SPED 8910 Theory of Assessment and Diagnosis of Learning Deficits 3 hours

Elective .......................... 3 hours
SPED 8990 Thesis (thesis option only) ..................................... 6 hours

Master of Science: Resource Teaching and Learning Disabilities

Resource teaching and learning disabilities is a specialized training program designed to prepare the graduate student to identify, diagnostically analyze and teach children who have specific learning deficits within a multi-disciplinary resource room setting. The student should enter the program with a
and techniques of teaching. Upon successful completion of the program and two years of successful teaching experience students will be recommended for the Resource Teaching and Learning Disabilities endorsements in grades preschool through high school offered by the State of Nebraska. The students in the resource option will sit for comprehensive written or oral examinations (50 hours of coursework, excluding selected elective coursework, advanced student teaching and the school internship). 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. Three to seven hours must be completed for the Master of Science degree. Students electing a resource teaching and learning disabilities thesis option will complete a forty (40) hour program by taking SPED 8909. Thesis for credit is equivalent to equivalent electives.

**Advance 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 the state education agency or complete the deficiency needed for the certificate,
4. meet with the 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 additional hours beyond SPED 8656 Career Development for the Handicapped 3 hours and student teaching for equivalent - 3 hours, and
6. maintain at least a "B" in each course of the first twelve hours of coursework.

**Course Requirements**

The course requirements are:

**SPED 5106 or PST 5506** Psychology of Exceptional Children 3 hours

**SPED 8656** Career Development for the Handicapped 3 hours

**SPED 8905** Emotional Development of Children and Youth 3 hours

**SPED 8916** Classroom Techniques for Behavior Control 3 hours

**SPED 8910** Learning Disabilities 3 hours

**SPED 8970** Clinical Teaching in Learning Disabilities 3 hours

**SPED 9910 Thesis (thesis option only)** 3 hours

**SPED 9950** (non-thesis option only) 3 hours

*Students must have practicum experience at a level other than their current certification. If a student teaches at the secondary level then the Advanced Student Teaching Internship Program, Meyer Children's Rehabilitation Institute, UNMC must be completed with grade level children.

**The thesis will be completed for six hours of credit, making the program 40 hours.**

**Counseling and Guidance**

4070/8070 Crisis Intervention and Suicide

4073/8073 Counseling with Diverse Populations

4074/8074 Counseling Skills in Gerontology

4075/8075 Mid-life, Career Change, Premature Retirement

4750/8756 Mid-life, Career Change, Premature Retirement (3) This course is designed to assist students in the exploration of the developmental tasks of mid-life, myths and realities related to career change as well as the implications of premature retirement. Students will also be able to respond to the decisions necessary to re-enter the work force. This course is repeatable up to a maximum of six hours of credit each time the conditions of this sequence are met. Prereq: Permission of the instructor.

8806 (Same as TED 8806) Guidance Skills for Educators (3) Course designed to familiarize educators with guidance activities of schools, the educator's role in these activities, and to develop appropriate guidance and learning skills. No credit for guidance majors. Prereq: Senior or Graduate.

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

5000 Special Studies in Counseling and Guidance (1-6) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

5010 Teaching Models in Affective Education (3) This course will cover cognitive models of teaching in the affective areas of education; a variety of models will be explored with special emphasis on planning and implementing activities in classroom situations. Prereq: ELED 4360 or EDUC 4580 or permission of instructor.

5020 Principles of Guidance (3) The introductory course for students mapping in Counseling and Guidance. A study of the basic principles underlying Counseling and Guidance. Students will begin counseling skill development in the course. It will be taken concurrently with COUN 8030, Counseling Practicum. Prereq: Admission to Guidance Master's Program in Counseling and Special Education Department or by permission.

5030 Counseling Practicum (3) This is a supervised practicum involving real teaching situations. Course is designed to develop basic counseling skills. Prereq: Admission as a counseling program or permission.

8100 Research Project in Counseling and Guidance (3) A major supervised research project involving analysis of specific problems/issues in the field. Prereq: TED 8010 and permission of the instructor.

8120 Counseling With Parents (3) A course in counseling techniques and materials for counseling parents. Counselors. Prereq: Permission of department.

8150 The Student and Student Personnel Worker in Higher Education (3) An overview of the characteristics of college students and the interaction with campus environmental influences. The impact of academic personnel on student development is emphasized as it affects personal growth, social development and career planning by college students. Prereq: COUN 8010.

8160 Research Project in Counseling and Guidance (3) A supervised research project involving analysis of specific problems/issues in the area of guidance and counseling. Prereq: Permission of department.

8200 Counseling Theories and Techniques (3) Study of contemporary theories of counseling, the counseling process and methods, and the acquisition of skills related to specific counseling techniques. Prereq: COUN 8260 and concurrent enrollment in COUN 8230 and COUN 8270.


8211 Counseling Practicum (3) Supervised experimental training in counseling. Prereq: Twenty hours in counseling including COUN 8330 and COUN 8280.

8220 Counseling Practicum (1) Intensive practicum course covering current issues and methods of counseling. Prereq: Permission of department.

8230 Appraisal Techniques in Counseling and Guidance (3) Appraisal Techniques in Counseling and Guidance describes the history of individual appraisal, the major technical considerations governing assessments and a survey of measurement devices and the psychological concepts and principles. The course will include uses and implications of nonstandardized assessment devices. Additionally, this course will cover the responsible use and interpretation of ability, aptitude, interest, personality, and career development devices, COUN 8050 or COUN 8150, and TED 1010.

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

8260 Internship (3-9) Field experience in an approved guidance program under the supervision of a qualified counselor and a guidance professor of the college. Prereq: COUN 8260 and permission of department.

8270 Group Techniques in Guidance (3) Lecture and formal presentation of principles and logistics involved in group process in counseling. Prereq: Permission of department.

8280 Counseling Older Adults and Their Families (2) A study of issues related to the counseling of older adults and their families. Prereq: Senioa Gero 8250. Prereq: COUN 8240 or permission of department.
COUNSELLING AND SPECIAL EDUCATION

DEGREE REQUIREMENTS

dealing with the ecology of the urban disadvantaged and its effects upon counseling. Prereq: Adviser's permission.

350 Counseling Techniques I (3) Study of counseling process and techniques emphasizing the development of counseling skills in the use of these techniques. Prereq: COUN 3200.

351 Counseling Techniques II (3) Study of counseling process and techniques emphasizing the development of counseling skills in the use of these techniques. Prereq: COUN 3200. Counseling Theories.

330 Elementary School Counseling Practicum (4) Counseling in the elementary setting under the supervision of a counseling professional. The practicum will be supervised by the instructor. Prereq: COUN 3200 and permission of department.

350 Elementary Counseling Internship (3) Field experience in an elementary counseling program under the supervision of a counseling professional and appropriate in school personnel. Prereq: COUN 3200 and permission of department.

370 Group Counseling Theory and Practice (3) A course designed primarily for faculty members as a combination of theory and experiences necessary to the understanding of effective leadership skills. Worked in the group counseling process. Prereq: COUN 3200, 3207.

400 Counseling Techniques III (3) This course is designed to assist students in developing a more systematic integration of previously learned information and skills and the application of these techniques to specific counseling situations. A prerequisite for Counseling Practicum. Prereq: COUN 3000 Counseling Techniques I, COUN 3100 Counseling Techniques II.

402 Vocational Counseling (3) This course is designed to assist students in developing a better understanding of the practical and professional skills in the area of vocational counseling and decision making. Prereq: Agency Counseling major or permission.

450 College Student Personnel Internship (4) This course is designed to provide personal service and supervisory experience under supervision in various areas within student personnel services. Prereq: Permission of supervisor.

470 Practicum in Group Counseling (3) Supervised experience co-facilitating group counseling in an approved practicum site. Required as the third course for the cognate area of Group Work in Counseling. Prereq: COUN 3030, 8200, 8207, 8700 or permission.

550 Alcoholism Treatment Modalities (3) An examination of alcoholism treatment modalities, with attention to theoretical perspectives, techniques, and effectiveness. Prereq: Consent of instructor. Prereq: Psychology, Social Work or Psy. Graduate students in other disciplines with prior training or experience in counseling will be admitted with permission of the instructor.

560 Parent Education (3) A study of several different Parent Education programs for Undergraduate students. Junior standing in special education, PSY 3110 or PSY 3140, CORE 2100, 2500, 2800 or permission of instructor.

420/4206 The History, Psychology and Sociology of Deafness (3) This is an introductory course for the counselor approach, beginning with social, historical, and future directions in the education of hearing impaired children. Basic concepts, definitions, theories, and research are explored in a highly independent manner. An in-depth experience for the student in the Human Services field with children or adults is expected. Basic understanding is developed which will assist the student in future progress in a Hearing Impaired or related program. Prereq: Admission to a Counseling and Special Education program.

420/8226 Teaching Speech to Hearing-Impaired Students (2) An investigation of the speech and language development of the hearing impaired child, preschool through high school, and exposure to the theory and practical applications for diagnosis and teaching these skills in the classroom. Prereq: SPEO 4450 and 4460.

423/8236 Language Development and Disorders for Teachers (3) An investigation of the nature and structure of language, acquisition of language and childhood disorders. This course is designed for undergraduate/graduate students who wish to become involved in regular and/or special education programs. Prereq: None.

424/8246 Bilingual Bimodal Language Development (3) The course will include an overview of monolingual, bilingual and bimodal language acquisition and signed language among hearing impaired and deaf students. Linguistic methodology will be applied to H.I. language development. Commercial, teacher- made and H.I. language materials will be evaluated and historical methodology reviewed. A "Deaf Awareness" unit will be organized by students in this class to teach the students the skills involved in conducting an inservice. Prereq: Admission to H.I. Program and Normal Language Development class.

433/8336 Aural Rehabilitation (3) This course surveys the research and methodology of language and communication disorders, and the ability to provide services to individuals in agencies involved in teaching, counseling, and school settings. Prereq: HEP 3000.

435/8356 Teaching Content Subjects to the Hearing Impaired (3) Consideration of problems in education of the hearing impaired, approaches to school subjects considered in detail. Prereq: 373/3736 Basic Audiology (3) Study of the pathology, medical and surgical management, and identification and treatment of auditory disorders. Emphasis will be on various programs and methods of treatment. Prereq: Graduate standing in Counseling.

4390/8396 Hearing Science (3) This course is designed for undergraduate majors in speech pathology and audiology and for graduate students majoring in audiology in education of the deaf. The purpose of the course is to introduce basic concepts related to speech and hearing that are important in understanding the process of human audition. The course will include basic terminology, anatomy and physiology of the hearing mechanism, and the effects of hearing impairment, including the anatomy and physiology of the ear.

4410/8416 Communication Disorders with Organic Etiologies (3) This is a graduate level course in applied basic science and clinical methods related to several of the most common communication disorders associated with organic etiologies. It is designed as an elective course in the advanced degree programs in speech pathology and for post-masters education for language and speech clinicians desiring a graduate level overview of these topics. Prereq: Undergraduate level course in speech pathology or instructor's permission.

4420/8426 Language Development in Children (3) This course is designed to familiarize the student with normal aspects of language development in children, including input and input channels, forces in language, major subsystems of language, and processes of word and phrase development of language. Prereq: None.

4440/8446 Rhythms Symbolization (3) Study of etiology and descriptive classification of organic and language symbolization disorders; assessment techniques with special emphasis on the application of examination procedures and methods associated with stuttering, cluttering, organic dysarthria, and aphasia. Prereq: 2540 for undergraduate students.

4450/8456 Speech Science II: Experimental and Applied Phonetics (3) Analysis of speech sounds, articulation and phonetic elements in major American English dialects, practice in transcription of auditory and visual perception, and recognition of the components of the speech sounds including the speech of older adults and people with hearing impairments. Prereq: 4450, junior standing or permission of instructor.

4590/8596 Disorders of Communication in Older Adults (3) This course is designed to familiarize the student with the pathologies of communication, symptomatology, basic assessment and intervention strategies associated with the consequences of communicative impairments affecting older adults and geriatric patients. It is beneficial to students majoring in gerontology, communication or speech pathology, as an elective course for a professional enrichment course for persons working in these or related fields. Students are assigned contacts with and written reports of contacts with an older adult who manifests a disorder of communication. Prereq: GERG 4500/8556 Health Aspects of Aging, or permission of instructor.

4600/8606 Introduction to Mental Retardation (3) This modular competency based course covers background information, classification, definitions, etiology, diagnosis, intervention, and procedures for persons with mental retardation; the needs of and services available for research.
DEGREE REQUIREMENTS

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Course Identifiers: 4810 / 8816 Classroom Techniques for Behavior Control

An intensive study of strategies utilized in the classroom setting for minimizing problem behaviors. Special emphasis is placed on techniques for teaching students with special needs. Prerequisites: For 4810, junior standing and student teaching, for 8816, graduate standing.

8830 Practicum in Teaching Emotionally Disturbed (3) A semester of participation in a normal classroom situation for the education of emotionally disturbed children and adolescents. Prerequisite: SPED 8810, 8816.

8840 Advanced Practicum in Teaching Emotionally Disturbed (3) A semester of participation in a clinical or hospital situation for the education of emotionally disturbed children and adolescents. Prerequisite: SPED 8810 and 8816.

8850 Special Projects (1-4) Sessions, workshops, or seminars oriented for teaching professionals. Prerequisites and procedures to be arranged.

8860 Teaching Severely / Profoundly Handicapped (3) The identification and evaluation of severely/profoundly handicapped children. Problem-solving strategies and techniques to be developed for each student. Prerequisite: SPED 9110 or 9120.

8870 Teaching Younger Handicapped Children (3) A course designed for the training of teachers with mildly handicapped students placed in their regular classrooms. Prerequisite: SPED 9110, 9120, 3050 (for undergraduates).

Psychological and social aspects of the school environment and the development of the handicapped student. Prerequisites: SPED 9110, 9120, 3050 (for undergraduates).

4650/8656 Career Development for the Severely / Profoundly Handicapped. This course is designed for teachers and related professionals to work with the career development of handicapped individuals. Emphasis will be placed on the development of skills necessary for elementary school teaching with emphasis on intermediate and junior high school curriculum. Crosslisted with COUN 8656. Prerequisite: None.

4680/8686 Developing Vocational Training Programs for the Severely / Profoundly Handicapped. Directed toward teachers of secondary, post-secondary, and higher education handicapped students to utilize vocational educational information, to develop training programs for severely handicapped youth and adults, and to compare various curriculum models for serving severely handicapped youth and adults. Prerequisite: None.

4710/8716 Interactions Between Professionals and Parents of the Handicapped (3) The identification and evaluation of mildly/professionally handicapped children, identifying both family and professional resources, and a project student in one of four areas: (1) strategies for parents of handicapped children; (2) strategies for involving parents in planning, implementation, and evaluation of handicapped education programs; (3) curriculum-instructional programming for family use and professionals dealing with families of the handicapped; (4) professional levels of handicapped students will work with mildly handicapped students placed in their regular classrooms. Emphasis will be on effective classroom strategies for working with students and techniques for communicating with special educators. Prerequisite: None.

4810/8816 Classroom Techniques for Behavior Control (3) An intensive study of strategies utilized in the classroom setting for minimizing problem behaviors. Special emphasis is placed on techniques for teaching students with special needs. Prerequisites: For 4810, junior standing and student teaching, for 8816, graduate standing.

4820 Advanced Studies in the Disorders of Voice (3) Types and causes of voice disorders; all diagnostic techniques are emphasized. Prerequisite: 4810.

4830 Advanced Studies in the Disorders of Rate and Rhythm (3) Types and causes of rate, stress, and rhythm abnormalities; emphasis on case study; consultation and supervision. Prerequisite: 4810.

4840 Clinical Approaches to the Disorders of Aphasia and Related Problems (3) Types and causes of language disorders; emphasis on rehabilitation procedures. Prerequisite: 4810.

8816 Interactions Between Professionals and Related Professionals (3) The identification and evaluation of mildly/professionally handicapped children, identifying both family and professional resources, and a project student in one of four areas: (1) strategies for parents of handicapped children; (2) strategies for involving parents in planning, implementation, and evaluation of handicapped education programs; (3) curriculum-instructional programming for family use and professionals dealing with families of the handicapped; (4) professional levels of handicapped students will work with mildly handicapped students placed in their regular classrooms. Emphasis will be on effective classroom strategies for working with students and techniques for communicating with special educators. Prerequisite: None.

8850 Special Projects (1-4) Sessions, workshops, or seminars oriented for teaching professionals. Prerequisites and procedures to be arranged.

8860 Teaching Severely / Profoundly Handicapped (3) The identification and evaluation of severely/profoundly handicapped children. Problem-solving strategies and techniques to be developed for each student. Prerequisite: SPED 9110 or 9120.

8870 Teaching Younger Handicapped Children (3) A course designed for the training of teachers with mildly handicapped students placed in their regular classrooms. Prerequisite: SPED 9110, 9120, 3050 (for undergraduates).

Psychological and social aspects of the school environment and the development of the handicapped student. Prerequisites: SPED 9110, 9120, 3050 (for undergraduates).

4650/8656 Career Development for the Severely / Profoundly Handicapped. This course is designed for teachers and related professionals to work with the career development of handicapped individuals. Emphasis will be placed on the development of skills necessary for elementary school teaching with emphasis on intermediate and junior high school curriculum. Crosslisted with COUN 8656. Prerequisite: None.

4680/8686 Developing Vocational Training Programs for the Severely / Profoundly Handicapped. Directed toward teachers of secondary, post-secondary, and higher education handicapped students to utilize vocational educational information, to develop training programs for severely handicapped youth and adults, and to compare various curriculum models for serving severely handicapped youth and adults. Prerequisite: None.

4710/8716 Interactions Between Professionals and Parents of the Handicapped (3) The identification and evaluation of mildly/professionally handicapped children, identifying both family and professional resources, and a project student in one of four areas: (1) strategies for parents of handicapped children; (2) strategies for involving parents in planning, implementation, and evaluation of handicapped education programs; (3) curriculum-instructional programming for family use and professionals dealing with families of the handicapped; (4) professional levels of handicapped students will work with mildly handicapped students placed in their regular classrooms. Emphasis will be on effective classroom strategies for working with students and techniques for communicating with special educators. Prerequisite: None.

8000 Special Projects (1-4) Sessions, workshops, or seminars oriented for teaching professionals. Prerequisites and procedures to be arranged.

8030 Teaching Handicapped Students in the Regular Classroom (3) This is a course designed for teachers working with mildly handicapped students placed in their regular classrooms. Emphasis will be on effective classroom strategies for working with students and techniques for communicating with special educators. Prerequisite: None.

8040 Communication Disorders for Classroom Teachers (3) This is a course service for classroom teachers, redefined to include (a) the identification of children, referral within and outside the school setting, (b) the use of nonverbal and verbal techniques for communication, (c) the training of the speech-language specialist as a resource, management techniques for teachers, and teaching techniques for students with speech and language disorders. Prerequisite: Multidisciplinary Teams (MDT), and selective topics.

8100 Research Projects (3) Individual or group study and analysis of specific problems.

8130 Diagnostic and Remedial Instruction (3) A course for advanced students in the area of assessment and intervention with children with special needs. Prerequisites: Eighteen hours of graduate education, and consent of instructor. Crosslisted with COUN 8130. Prerequisite: Graduate standing.

8140 Measurement and Evaluation of Reading (3) A clinic-oriented course for advanced graduate students teaching reading by working with supervision and training in handling referrals, diagnosing specific reading problems, selecting responsive instructional strategies, and providing for other necessary for running an effective diagnostic intervention program. Prerequisite: Consent of instructor.

8150 Clinical Practice in Reading (3) A laboratory-oriented course for advanced graduate students interested in gaining supervised clinical experience in the use of diagnostic and remedial procedures in the classroom setting. Prerequisite: Consent of instructor.

8400 Learning Disabilities (3) Study of specific learning disabilities among children, review problems in the educational system and special educational programs for children with learning disabilities. Prerequisites: For 4810, junior standing and student teaching; for 8816, graduate standing.

8410 Identification of the problem; therapy techniques for habilitation or rehabilitation of children with special needs. Prerequisite: For 4810, junior standing and student teaching; for 8816, graduate standing.

4820 Advanced Studies in the Disorders of Voice (3) Types and causes of voice disorders; all diagnostic techniques are emphasized. Prerequisite: 4810.

4830 Advanced Studies in the Disorders of Rate and Rhythm (3) Types and causes of rate, stress, and rhythm abnormalities; emphasis on case study; consultation and supervision. Prerequisite: 4810.

4840 Clinical Approaches to the Disorders of Aphasia and Related Problems (3) Types and causes of language disorders; emphasis on rehabilitation procedures. Prerequisite: 4810.

8000 Special Projects (1-4) Sessions, workshops, or seminars oriented for teaching professionals. Prerequisites and procedures to be arranged.

8030 Teaching Handicapped Students in the Regular Classroom (3) This is a course designed for teachers working with mildly handicapped students placed in their regular classrooms. Emphasis will be on effective classroom strategies for working with students and techniques for communicating with special educators. Prerequisite: None.

8040 Communication Disorders for Classroom Teachers (3) This is a course service for classroom teachers, redefined to include (a) the identification of children, referral within and outside the school setting, (b) the use of nonverbal and verbal techniques for communication, (c) the training of the speech-language specialist as a resource, management techniques for teachers, and teaching techniques for students with speech and language disorders. Prerequisite: Multidisciplinary Teams (MDT), and selective topics.

8100 Research Projects (3) Individual or group study and analysis of specific problems.

8130 Diagnostic and Remedial Instruction (3) A course for advanced students in the area of assessment and intervention with children with special needs. Prerequisites: Eighteen hours of graduate education, and consent of instructor. Crosslisted with COUN 8130. Prerequisite: Graduate standing.

8140 Measurement and Evaluation of Reading (3) A clinic-oriented course for advanced graduate students teaching reading by working with supervision and training in handling referrals, diagnosing specific reading problems, selecting responsive instructional strategies, and providing for other necessary for running an effective diagnostic intervention program. Prerequisite: Consent of instructor.

8150 Clinical Practice in Reading (3) A laboratory-oriented course for advanced graduate students interested in gaining supervised clinical experience in the use of diagnostic and remedial procedures in the classroom setting. Prerequisite: Consent of instructor.

8400 Learning Disabilities (3) Study of specific learning disabilities among children, review problems in the educational system and special educational programs for children with learning disabilities. Prerequisites: For 4810, junior standing and student teaching; for 8816, graduate standing.
where students study the terminology of curricula, the goals and aims, objectives and lessons plans, task analysis assessment and evaluation, and program planning. Projects, self-group discussion, and a final test make up the evaluation techniques used in this class.

8670 Methods of Instruction for the Severely/Profusely Handicapped (3) This course will involve a combination of lectures, demonstrations and practice experiences designed to assist the student to be able to concisely state principles in written behavioral objectives and written work. Demonstration of objectivity, in course objectives will be evidenced by collecting, measuring and graphing data on the written objectives and tasks. Prereq: SPED 8000, 8006 or permission of instructor.

8680 Sensory Disabilities and Physical Handling of the Multiply Handicapped Child (3) This course will include outside views of typical sensory, physical handling and physical therapy, including the discussion and illustration of educational implications of sensory disabilities and motor problems in the child with multiple handicaps. Application of principles in educational intervention will be stressed. Prereq: SPED 9000 or equivalent or permission of instructor.

8700 Seminar in Special Education (3) Graduate course for professional teachers who provide services for exceptional persons. Each seminar will be conducted around a theme concerned with current educational problems. Participation will each prepare a project which includes practical research, a written paper, and presentation to the class. Lecture by the instructor and guests will be related to the seminar theme. Prereq: Graduate Standing in a field of Social Science.

8720 Basic Student Teaching (3) Classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar. F (S S u).

8725 Advanced Student Teaching (3) A second semester of classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar. F (S S u).

8690 Advanced Diagnosis of Learning Deficit (6) The course will be designed to assist the student with understanding principles in the administration and interpretation of normative referenced evaluative measures (non-psychological), criteria-referenced tests, and informal diagnostic teaching profiles. Problem solving. Prereq: SPED 8000.

8760 Clinical Teaching in Learning Disabilities (6) This course provides the graduate student with either insurance or placement in a school program for the learning disabled or in a resource room setting and at a level commensurate with the student's stated level of endorsement (pre-school-kindergarten, elementary, middle school, or secondary). Prereq: Step 1 and permission.

8690 Advanced Diagnosis of Learning Deficit (6) The course will be designed to assist the student with understanding principles in the administration and interpretation of normative referenced evaluative measures (non-psychological), criteria-referenced tests, and informal diagnostic teaching profiles. Problem solving. Prereq: SPED 8000.

8900 Administration and Supervision of Special Education (3) Problems of organization, administration, and supervision of the special education program, curriculum, and educational planning. F (F S Su).

9100 Theories of Assessment and Diagnosis of Learning Deficits (3) This course will introduce the student to a model and diagnostic that describes both the qualitative and quantitative relationship between learning abilities and academic achievement. Prereq: None.

9300 School Practice in Teaching/Learning Disabilities (3) This course provides the graduate student with an insurance or placement in a school program for the learning disabled or in a resource room setting and at a level commensurate with the student's stated level of endorsement (pre-school-kindergarten, elementary, middle school, or secondary). Prereq: Step 1 and permission.

8690 Advanced Diagnosis of Learning Deficit (6) The course will be designed to assist the student with understanding principles in the administration and interpretation of normative referenced evaluative measures (non-psychological), criteria-referenced tests, and informal diagnostic teaching profiles. Problem solving. Prereq: SPED 8000.

8900 Administration and Supervision of Special Education (3) Problems of organization, administration, and supervision of the special education program, curriculum, and educational planning. F (F S Su).

8920 Seminar in Special Education (3) Students study the terminology of curricula, the goals and aims, objectives and lessons plans, task analysis assessment and evaluation, and program planning. Projects, self-group discussion, and a final test make up the evaluation techniques used in this class.

8670 Methods of Instruction for the Severe/Profusely Handicapped (3) This course will involve a combination of lectures, demonstrations and practice experiences designed to assist the student to be able to concisely state principles in written behavioral objectives and written work. Demonstration of objectivity, in course objectives will be evidenced by collecting, measuring and graphing data on the written objectives and tasks. Prereq: SPED 8000, 8006 or permission of instructor.

8680 Sensory Disabilities and Physical Handling of the Multiply Handicapped Child (3) This course will include outside views of typical sensory, physical handling and physical therapy, including the discussion and illustration of educational implications of sensory disabilities and motor problems in the child with multiple handicaps. Application of principles in educational intervention will be stressed. Prereq: SPED 9000 or equivalent or permission of instructor.

8700 Seminar in Special Education (3) Graduate course for professional teachers who provide services for exceptional persons. Each seminar will be conducted around a theme concerned with current educational problems. Participation will each prepare a project which includes practical research, a written paper, and presentation to the class. Lecture by the instructor and guests will be related to the seminar theme. Prereq: Graduate Standing in a field of Social Science.

8720 Basic Student Teaching (3) Classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar. F (S S u).

8725 Advanced Student Teaching (3) A second semester of classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar. F (S S u).

8690 Advanced Diagnosis of Learning Deficit (6) The course will be designed to assist the student with understanding principles in the administration and interpretation of normative referenced evaluative measures (non-psychological), criteria-referenced tests, and informal diagnostic teaching profiles. Problem solving. Prereq: SPED 8000.

8760 Clinical Teaching in Learning Disabilities (6) This course provides the graduate student with an insurance or placement in a school program for the learning disabled or in a resource room setting and at a level commensurate with the student's stated level of endorsement (pre-school-kindergarten, elementary, middle school, or secondary). Prereq: Step 1 and permission.

8690 Advanced Diagnosis of Learning Deficit (6) The course will be designed to assist the student with understanding principles in the administration and interpretation of normative referenced evaluative measures (non-psychological), criteria-referenced tests, and informal diagnostic teaching profiles. Problem solving. Prereq: SPED 8000.

9100 Theories of Assessment and Diagnosis of Learning Deficits (3) This course will introduce the student to a model and diagnostic that describes both the qualitative and quantitative relationship between learning abilities and academic achievement. Prereq: None.

9300 School Practice in Teaching/Learning Disabilities (3) This course provides the graduate student with an insurance or placement in a school program for the learning disabled or in a resource room setting and at a level commensurate with the student's stated level of endorsement (pre-school-kindergarten, elementary, middle school, or secondary). Prereq: Step 1 and permission.

CRIMINAL JUSTICE

PROFESSORS: Siegal, 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 research methods course, a research methods course, and a writing course. Candidates must also have been a junior or senior 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 is a 30-credit-hour non-thesis program designed to emphasize research activity and independent study, 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
8003 Professors in Criminal Justice 3 hours
8010 The Nature of Crime 3 hours
8020 Seminar in Administration of Justice 3 hours
8060 Criminal Justice Research Theory and Methodology 3 hours

Elective Criminal Justice Courses 15 hrs.
(1) Student selects five (5) courses with advisor approval
8100 Seminar in Police and Society 3 hours
8150 Seminar in Courts 3 hours
8160 Seminar in Correction 3 hours
8170 Seminar in Juvenile Justice 3 hours
8180 Seminar in Theoretical Criminology 3 hours
8190 Criminal Justice Organization and Administration 3 hours
8110 Criminal Justice Planning and Change 3 hours
8120 Criminal Justice Planning and Change 3 hours
8200 Special Problems in Criminal Justice 3 hours
8316 Convictional Law 3 hours
8356 Community Based Corrections 3 hours
9890 Completion and Successful Defense of Thesis 6 hours
*All courses, except 8000, carry three credit hours.

Master of Science

The Master of Science degree is a 36-credit-hour non-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 or a Master of Science with an option in Counseling. The Public Administration Option is especially recommended for administrators or future administrators within the criminal justice system. It is also 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
8003 Professors in Criminal Justice 3 hours
8010 The Nature of Crime 3 hours
8020 Seminar in Administration of Justice 3 hours
8060 Criminal Justice Research Theory and Methodology 3 hours

Elective Criminal Justice Courses 15 hours
(1) Student selects five (5) courses with advisor approval
8000 Seminar in Police and Society 3 hours
8150 Seminar in Courts 3 hours
8160 Seminar in Correction 3 hours
8170 Seminar in Juvenile Justice 3 hours
8180 Seminar in Theoretical Criminology 3 hours
8190 Criminal Justice Organization and Administration 3 hours
8110 Criminal Justice Planning and Change 3 hours
8120 Criminal Justice Planning and Change 3 hours
8200 Special Problems in Criminal Justice 3 hours
8316 Convictional Law 3 hours
8356 Community Based Corrections 3 hours
9890 Completion and Successful Defense of Thesis 6 hours
*All courses, except 8000, carry three credit hours.

CRIMINAL JUSTICE
DEGREE REQUIREMENTS

8060 Seminar in the Criminal Court System 6 hours
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
8190 Independent Study
8200 Special Problems in Criminal Justice
8316 Correctional Law
8356 Community Based Corrections

Elective Criminal Justice Courses
In consultation with an advisor the student selects four (4) courses in a related field. Suggested fields include, but are not limited to: Business Administration, Psychology, Political Science, Social Work, and Sociology. Satisfactory completion of the comprehensive examination is also required.

Master of Science (Public Administration Option)

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

Required Core Courses
9020 Professions in Criminal Justice 9 hours
9030 The Nature of Crime
9040 Seminar in Administration of Justice
9050 Criminal Justice Research Theory and Methodology

Required Public Administration Courses
8050 Survey of Public Administration 12 hours
or 8440 Seminar in Organizational Development in Public Agencies
8410 Public Budgeting
or 8490 Seminar in Public Financial Administration
8410 Public Personnel Management
or 8450 or Public Personnel Administration (if credit has been earned in PA 4410)
8420 Seminar: Introduction to Public Organization

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
9080 Seminar in Theoretical Criminology
9100 Criminal Justice Organization, Administration, and Management
9110 Criminal Justice Planning and Change
9120 Independent Study
8200 Special Problems in Criminal Justice
8316 Correctional Law
8356 Community Based Corrections
Satisfactory completion of the comprehensive examination is also required.

In consultation with an advisor the student selects two (2) additional counseling courses. Suggested courses include, but are not limited to: Business Administration, Psychology, Political Science, Social Work, and Sociology. 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
9020 Professions in Criminal Justice 9 hours
9030 The Nature of Crime
9040 Seminar in Administration of Justice
9050 Criminal Justice Research Theory and Methodology

Required Counseling Courses
8120 Counseling Practice
8120 Student Development and Practice
8200 Counseling Theories
8200 Seminar in Police and Society
8250 Seminar in Corrections
8270 Seminar in Criminal Law and Procedure
8290 Seminar in Juvenile Justice
8300 Seminar in Theoretical Criminology
8300 Criminal Justice Organization, Administration, and Management
8311 Criminal Justice Planning and Change
8314 Counseling Techniques
8316 Correctional Law
8356 Community Based Corrections

Elective Counseling Courses
In consultation with an advisor the student selects two (2) additional counseling courses. Suggested courses include, but are not limited to: Business Administration, Psychology, Political Science, Social Work, and Sociology. Satisfactory completion of the comprehensive examination is also required.

8310 Criminal Justice Research Theory and Methodology (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8315 Community Based Corrections (3) A course for advanced students with special interest in the correctional process as applied in a community setting. It is designed specifically to focus on probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8316 Correctional Law (3) This course is designed to provide a social science perspective on the role of the courts in the criminal justice system. The ideal of the system will be compared with actual functioning, and court reform programs and proposals will be critically examined. Prereq: Graduate standing and permission.
8317 Seminar in Corrections (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8318 Seminar in Criminal Law and Procedure (3) This course is designed to provide a social science perspective on the role of the courts in the criminal justice system. The ideal of the system will be compared with actual functioning, and court reform programs and proposals will be critically examined. Prereq: Graduate standing and permission.
8319 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8320 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8321 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8322 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8323 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8324 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8325 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8326 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8327 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8328 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8329 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8330 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
8331 Seminar in Criminal Law and Procedure (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. It is designed specifically to focus on police, probation, parole, and other current community-based strategies for dealing with the offender. Prereq: None.
be examined. Pre-requisite: Graduate standing and permission of instructor.

8900 Seminar in Juvenile Justice (3) An in-depth study of the etiology of crime as a social phenomenon and an objective analysis of the historical, psychological, and sociological development of the art. Students are exposed to an advanced seminar in the general area to be studied and permission of the instructor.

8100 Special Problems in Criminal Justice (1-6) Individual projects in research, literature review, or creative production which may or may not be an extension of course work. The work will be supervised and evaluated by the departmental faculty members. Pre-requisite: Graduate hours in major department and permission of instructor.

1000 Criminal Justice Organization, Administration, and Management (3) This course is designed to prepare students for careers in the administration and management of modern justice agencies. The subject matter will be divided into two areas: theories, concepts, and issues relating to the administration and organization of justice agencies. Pre-requisite: Acceptance in the graduate college and permission of instructor.

8517-8526 Advanced Projects in Dramatic Arts (3) Special projects in dramatic arts supplemented by group discussion and/or seminar. Prerequisite: 9 hours of dramatic arts in the general area to be studied and permission of the instructor.

8200 Children's Theatre Production (3) Terminal research in the development of a children's theatre production. This course is designed to introduce graduate students to the advanced techniques of play production, and to demonstrate how that knowledge can be applied in the classroom. Pre-requisite: C3 graduate student and permission of the instructor.

8326 Acting: Historical Periods and Styles (Each 3) The fundamental theories and practices of major styles of acting from ancient Greece to the present, including the interpretation of outstanding dramatic literature. Per-req: DA 2520 or permission of instructor.

4330/4336 Advanced Acting Studio III: Ensemble Production Project (3) In depth exploration of a character played in a group performance. Stress on creating a working process that allows the ensemble to emerge. The class will culminate in a public performance. Prerequisite: 8100. A terminal project for an undergraduate major or minor in theatre or permission of instructor.

4464 Directing: Rehearsal and Performance (3) A practicum in play production, analysis, casting, directing, and performance. Prerequisite: DA 1010, 1030, 2060, 2520 or permission of instructor.

4550/4551 Costume Design (Each 3) An introduction to costume design, including line, silhouette, movement, form, tone, and theatricality. Emphasis on the visual presentation of designs, including considerations of work with live actors and rendering techniques. Prerequisite: DA 2000, 2550. Art and design major or permission of the instructor.

8612 Theatre Production (3) Principles of composition perspective and color for the stage. The director's approach to the play, production of ground plans and sketches. Pre-requisite: DA 1010, 2060, 3030, 2060 and junior standing. For 8612, graduate standing with an undergraduate major in theatre or permission of the instructor.

8676 Stage and TV Lighting (3) Characteristics and control of light and color and their application to their use in television and theatrical production. Pre-requisite: DA 1010, 1630, 2060.

8716 History of the Theatre to 1625 (3) A historical survey of the theatre to the present.

8726 History of the Theatre Since 1625 (3) A historical survey of the theatre and its literature from 1625 to the present.

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

8078/8079 Contemporary People's Theatre (3) A course designed for graduate and upper division undergraduate students, this course concentrates on the people's theatre movement from 1960 to the present. Considerable emphasis will be given to research and study of companies currently operating, with encouragement given to graduate students to write for publication. Pre-requisite: Graduate Consent of Instructor. Undergraduate: Junior or Senior standing.

8370 Seminar in Play Direction (3) An in-depth study of the principles of play direction. Pre-requisite: Graduate standing and permission of instructor.

8650 Technical Theatre Problems (3) Research in the area of problems in technical theatre. The subject of the seminar will change each year. Pre-requisite: Senior or graduate standing and permission of instructor.

8909 Dramatic Arts Research Methods (3) This course is designed to introduce graduate students in dramatic arts to basic techniques of qualitative research: gathering material, defining the problem, and preparing the manuscript. Pre-requisite: Admission to graduate program in Dramatic Arts.

8910 Dramatic Theory and Criticism (3) An introduction to the systematic study of dramatic literature. Prerequisite: Major or minor in dramatic arts.

8920 Seminar in Contemporary Theatre Aesthetics (3) Research and dialogue in the aesthetic theories and movements in the contemporary theatre. Emphasis on the sources, background, and configuration of theatrical styles in
ECONOMICS

PROFESSORS: Lee Nelson, Sindt, Zahn
ASSOCIATE PROFESSORS: Corcoran, Diamond, Kehr, Soisin, 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, financial analysis, policy analysis and related work. Admission is 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 8210, Macroeconomic Theory
ECON 8306, Quantitative Applications in Economics and Business
ECON 8260, Research Methods
ECON 8300, Econometrics

*Not required for students demonstrating satisfactory mathematical skills. In that case, add 3 hours to electives.

Each student may elect a specialization from those suggested below. Other specializations may be approved by the Economics Program Graduate Advisor. Specializations consist of either 9 or 12 hours of interrelated graduate level coursework.

Suggested Specializations

I. Economic Theory
   ECON 8410, Seminar in Labor Economics
   ECON 8246, Monetary Theory and Policy
   ECON 8460, Seminar in International Economics
   ECON 8290, Research Methods
   ECON 8300, Econometrics
   Electives
   Total: 9 hours

II. Energy and Regulatory Economics
   ECON 8216, Energy and Policy
   ECON 8322, Natural Resource Economics
   Electives
   Total: 6 hours

III. Monetary and Financial Economics (excluding 4 courses)
   ECON 8010, Public Finance
   ECON 8346, Monetary Theory and Policy
   ECON 8450, Seminar in Money and Banking
   BA 8250, Banking and Financial Markets
   BA 8566, State and Local Finance
   Electives
   Total: 15 hours

IV. International Economics (excluding 3 courses)
   ECON 8600, Seminar in International Economics
   ECON 8616, International Trade
   ECON 8626, International Monetary Economics
   ECON 8690, International Economic Development
   POLI SCI 8200, Seminar in International Politics
   Electives
   Total: 12 hours

V. Urban Regional Economics (select 4 courses - 12 hours, of which must be in Economics)
   ECON 8850, Seminar in Urban Economics
   ECON 8870, Seminar in Regional Economics
   ECON 8990, Research in Urban and Regional Economics
   GEO 8120, Urban Geography
   HIST 8430, American Urban History to 1900
   HIST 8440, American Urban History since 1870
   SOC 8140, Urban Sociology

VI. General (12 hours of graduate-level course electives. Approval of Economics Program Graduate Advisor required.)

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)

*Not required for students demonstrating satisfactory mathematical skills. In that case, add 6 hours to electives.

Suggested Specializations

I. Real Estate and Land Use Economics
   BA 8600, Real Estate and Land Use Economics
   Electives
   Total: 18 hours

II. Labor and Urban Economics
   HIST 8410, Current Problems in Real Estate
   Electives
   Total: 6 hours

III. Urban and Regional Economics
   All other specializations are the same as those described under the M.S. program.
   Electives
   Total: 6 hours

4210/8216 Industrial Organization (3) An analysis of the structure and behavior of industries and their effect on economic performance. Involves detailed applications of micro-economic theories and concepts and provides a basis for public policy evaluations. Prereq: Econ 1010 and 2020 or permission of the instructor.

4300/8306 Quantitative Applications in Economics and Business (3) The study and application of modern quantitative techniques to problems solving in economics and business. Prereq: Econ 1010 and D.S. 2120 or permission of instructor.

4320/8326 Natural Resource Economics (3) Energy, minerals, fisheries, water, land, pollution and conservation are among the topics. The course covers the basic theoretical framework for understanding the optimal rate of use, price of resource use, identities the factors which determine the actual rate of use, and considers and evaluates various public policy prescriptions. Prereq: Econ 1010 and 2020 or permission of instructor.

4340/8346 Monetary Theory and Policy (3) This course traces the development of monetary theory from the classical theory to current monetary theory. Prereq: ECO 3220 or permission of the instructor.

4610/8616 International Trade (3) An analysis of the character of international economic relations. Topics covered include the economic basis for international specialization and trade, the economic gains from trade, commercial policy, economic imperialism, and economic growth. Prereq: Econ 1010 and 2020 or permission.

4620/8626 International Monetary Economics (3)付 payments adjustment mechanism, alternative exchange rate systems, external effects of monetary and fiscal policies in the global economy. Prereq: Econ 3220 and 3230 or permission of the instructor.

8510 Seminar in Labor Economics (3) A study of the labor relations process. Topics covered include labor legislation, labor unions, collective bargaining, and the economic significance of labor. Prereq: Econ 1010 and 2020 or permission of the instructor.
of business. Economic analysis of the business firm and its environment, with emphasis on market structure, competition, 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.

8280 Seminar in Micro Theory (S) This course focuses on the development of microeconomic theory, from the classical point of view to current schools of thought. Prereq: Microeconomics and an introductory course in numerical methods. Prereq: Econ 2000 or 3020 or permission.

8290 Business Conditions Analysis (Same As BA 8050) (S) This course is concerned with the study of business conditions and the evaluation of general business conditions, and the adoption of business policies to changing business conditions. Emphasis is placed on the practical application of statistical techniques of analysis to the business situation, within the framework of the aggregate economy. Prereq: Econ 3000 or BA 4100.

8300 Econometrics (S) The study of the understanding of economic problems and solutions upon the policy alternatives available to solve them. Prereq: Undergraduate courses or permission of instructor. Prereq: At least 6 hours of upper division course work in economics or permission of instructor.

8310 Business Forecasting (S) An analysis of forecasting techniques for business and economic problems involving regional economic problems and planning. Prereq: At least 6 hours of upper division course work in economics or permission of instructor.

8310 Business Forecasting (S) An analysis of the theoretical basis for the analysis of economic problems involving regional economic problems and planning. Prereq: At least 6 hours of upper division course work in economics or permission of instructor.

8320 Seminar in International Economics (S) An analysis of current quantitative techniques for the study of international economic development and planning. Prereq: At least 6 hours of upper division course work in economics or permission of instructor.

8330 Graduate standing in the college of business administration. Economic analysis of the business firm and its environment, with emphasis on market structure, competition, 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.

8340 Seminar in Money and Banking (S) A study of the theory of money and banking and the working of the international monetary system. Prereq: Econ 3650 or 4650 or permission of instructor.

8350 Seminar in Urban Economics (S) An analysis of current quantitative techniques for the study of urban economic problems with emphasis upon the policy alternatives available to solve them.
9896 Seminar: Linguistics (3) A seminar in a selected sub-field or problem area of linguistics such as sociolinguistics, generative semantics, applied linguistics, descriptive linguistics, teaching English as a foreign language, etc. Prereq: English 4550/4558 and permission of the instructor.

9896 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 theatrical background from the beginning to the present day, with concentration on the drama of the twentieth century.

9896 Seminar: Introduction to Linguistic Research (3) A survey of literary history, research, 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.

9896 Seminar: Linguistic Analysis (3) A seminar in the major works of John Milton and in the investigation of specific critical and scholarly problems. Prereq: Graduate standing or permission of the instructor.

9896 Seminar: John Milton (3) Intensive seminar in the major works of John Milton and in the investigation of specific critical and scholarly problems. Prereq: Graduate standing or permission of the instructor.

9896 Seminar: Topical Seminar in English (3) A study of selected writings in middle English. Prereq: Graduate standing and one course in middle English language or writing.

9896 Independent Study (1, 2, or 3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the graduate faculty. Designed for students who have need of work not currently available in the departmental offerings, and who have demonstrated capability of working independently. May be repeated for credit with permission of the instructor, admis-

9896 Seminar: Restoration and Eighteenth Century (3) A detailed study of selected English authors and works of the Restoration and the Eighteenth Century (1660-1800).

9100 Seminar: Victorian Literature (3) An intensive study of selected works written by Victorian authors. Prereq: Graduate standing or permission by the chairman of the department of English.

9130 Topical Seminar in English (3) An intensive study of one or more authors, genres, or problems with particular emphasis on the United States. Includes philosophical and eco-

9140/8146 Urban Sociology (3) A study of urban problems. Emphasis is placed on the evolution of urban form and on sociological problems related to the development of urban structures that comprise the building fabric of the city. Prereq: Graduate standing.

9220/8226 Great Plains and Nebraska (3) A study of the major physical and cultural attributes of the region. Emphasis on topographic

GEOGRAPHY

PROFESSORS: Baris Gill F. Shreider, Vogel ASSOCIATE PROFESSORS: Schreiber, M. P. Peterson

Master of Arts

In addition to the requirements of the Graduate College, an applicant for admission to the Master of Arts degree program in geographic science must present

8401/8416 Conservation of Natural Resources (3) A critical analysis of methods in geography with emphasis on slope formation including selected controlling factors. Topics are presented within the framework of the classic 20th century geomorphology. One field trip is required.

8420/8426 Seminars in Geographical Methods (3) A laboratory and lecture course with emphasis on the principles of geography. Emphasis on physical and applied aspects of the field. Prereq: Geography 1060 or 3510.

8530/8536 Historical Geography of The United States (3) An analysis of historical circumstances behind contemporary patterns of American cultural geography. Prereq: Graduate standing and Hist. 1110 and 1120 or Geography 1070 or 1170.

8580 Environmental Remote Sensing (3) A seminar in environmental remote sensing and its applications to physical and social sciences. Prereq: Geography 1060 or 3510.
tions of GeoG 8500, but will be separate from one another. Students may repeat GeoG 8500 as often as they may, as long as no specific subject is duplicated. Course to be offered with approval of Graduate Program Committee and Dean for Graduate Studies. Prereq: Variable.

8510 Advanced Geomorphology (3) A seminar and literature course on the current concepts and literature in the field of land form studies. Discussion will emphasize classic ideas as well as the modern concepts of climate, dynamic, and quantitative geomorphology. Some study of quaternary chronology will be necessary. Several optional Saturday field trips. Prereq: GeoG 8260 or 8265 + 170 or 1710. Permission.

8580 Soils (3) An examination of the older geographical concepts of the distribution and morphologic evolution of soil and the new concepts concerned with soil forms on a regional, rather than zonal, basis. Prereq: Geog 8510 and 8570 and 1500 or 1510. Permission.

8640 Independent Research (1-3) Advanced study in the form of a major research project. Students are required to submit a written proposal and gain written approval of the supervising faculty member and Graduate Program Committee. In addition to a formal written report, the student is required to make an oral presentation of research results to General Seminar or a professional meeting. Prereq: 15 graduate hours in geography and permission.

8640 Remote Sensing: Advanced Concepts and Applications (3) Is 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 8570 and 8620.

8650 Land Use (3) A field course designed to understand, by actual field investigation, land use patterns in urban areas through the comprehension of social, physical, and economic factors as they relate to the urban regional region. The major emphasis will be placed upon field investigations in the urban area and the functional region receiving the major consideration. Prereq. Geog 4120/6126.

8670 Cartographic Methods (3) Teaches effective map layout and the latest cartographic techniques, leading to a high level of expertise in the design and interpretation of maps.

8800 Internship in Environmental/Regional Planning (1-6) Independent internship up to 6 hours. Internship with local planning agencies enabling students to gain knowledge and experience in environmental or regional planning. Prereq. Permission and 12 hours graduate credit in geography.

8810 Seminar in Metropolitan Planning (3) A seminar focusing on the changing urban and metropolitan regions. Emphasis on the planning activity and control trends encountered by planning officials. Prereq. Permission. (Same as Econ. 8810 and P.A. 8810.)

8830/8840 Interdisciplinary Seminar On The Urban Community (2-6) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put on a coordinated basis. Prereq. Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences (not economics, political science, and sociology).

8950 Topics in Regional Geomorphology of North America (3) A seminar on the landforms of North America from the perspective of a particular geomorphic process viewed on a regional basis rather than the general geomorphology of a specific region. Prereq. Permission.

GERONTOLOGY

PROFESSORS: Missinne, Thomas
ASSOCIATE PROFESSORS: Horanak, Winkel
Certificate in Gerontology

While UNO does not offer a graduate degree in Gerontology, a Specialization in Gerontology is available for students who have completed 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 study at the University. Each graduate degree must also be accepted into the degree program of their major department.

2. Coursework requirements consist of a minimum of 15 semester hours in Gerontology. The only required course is GERO 8100 — 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. It must be noted that individual programs of study are developed for each student to best meet his or her career goals and interests.

3. A one semester full-time practicum or its equivalent is also required. The goal of this is to...

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:

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

GER 8100 — Educational Gerontology (3 semester hours)

GER 8670 — Aging and Human Behavior (3 semester hours)

GER 8640 — Remote Sensing: Advanced Concepts and Applications (3 semester hours)

GER 8946 — Practicum in Gerontology (3 semester hours)

GER 4100/8106 Educational Gerontology (3) An introduction to the field and about the aging. The institutions and processes of education. Prereq: 3 semester hours in education.

GER 4690/8696 Working With Minority Elderly (3) This course is an interdisciplinary, designed to provide the student with learning about the differing status, attitudes and experiences of the elderly within the four major minority groups and to examine social norms and models of health in 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 for the instructor.

GER 4750/8756 Mid-Life, Career Change, and Retirement (3) An examination of the mid-life crisis as it applies to the concept of second careers, career changes, and the future of second careers; and the concept and practical implications of pre-retirement planning. (Same as Counseling 4750/8756.) Prereq: None

GER 4850/8856 Hospice and Other Services for the Dying Individual/Family (3) This course is designed to attract students in the recognition of fear, concern, and needs of dying patients and their families in a cross-cultural and cross-national framework. An examination of some practical experiences and developments in Europe, Asia, and Africa will be examined. Prereq. Three hours gerontology or permission.

GER 4590/8506 Legal Aspects of Aging (3) Examines the legal issues concerning the elderly and the aging. Prereq. Permission.

GER 4590/8507 Legal Aspects of Aging (3) Examines the legal issues concerning the elderly and the aging. Prereq. Permission.

GER 4590/8508 Legal Aspects of Aging (3) Examines the legal issues concerning the elderly and the aging. Prereq. Permission.

GER 4100/8106 Educational Gerontology (3) An introduction to the field and about the aging. The institutions and processes of education. Prereq: 3 semester hours in education.

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:

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

GER 8100 — Educational Gerontology (3 semester hours)

GER 8670 — Aging and Human Behavior (3 semester hours)

GER 8640 — Remote Sensing: Advanced Concepts and Applications (3 semester hours)

GER 8946 — Practicum in Gerontology (3 semester hours)

GER 4100/8106 Educational Gerontology (3) An introduction to the field and about the aging. The institutions and processes of education. Prereq: 3 semester hours in education.

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:

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

GER 8100 — Educational Gerontology (3 semester hours)

GER 8670 — Aging and Human Behavior (3 semester hours)

GER 8640 — Remote Sensing: Advanced Concepts and Applications (3 semester hours)

GER 8946 — Practicum in Gerontology (3 semester hours)
field of aging. Prereq: Nine hours of 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.

8200 Counseling Older Adults and Their Families (3) A study of issues related to counseling of older adults and their families. (Same as COUL 8200) Prereq: COUL 8240 or permission.

8730 Thanatology-Study of Death (3) An examination of the theory and research relevant to understanding of older adults and their families. (Same as PSY 8730) Prereq: Completion of psychology 12 hours of psychology and/or gerontology or permission.

8920 Personal Values and Aging (1) Course designed to increase student's self-awareness of personal values and feelings related to aging and the aged.

8940 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. (Same as Psychology 8969) Prereq: 12 hours of psychology and/or gerontology or permission.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

PROFESSORS: K. Berg, Flynn, Kidd
ASSOCIATE PROFESSORS: Blankie, Buchanan, Corbin, Lundahl, Metal-Corbin, Stewart
ASSISTANT PROFESSORS: Barciks-Miller, Later

The School of Health, Physical Education, and Recreation offers graduate courses in the areas of health education, physical education, exercise science, and recreation/leisure studies. It is possible to obtain a Master of Arts or the Master of Science degree in one of the following areas: Health Education, Exercise Science, and Recreation/Leisure Studies.

The Master of Arts degree, which does not require a thesis, requires a minimum of 36 semester hours. Students desiring the Master of Science degree will complete a program of at least 30 semester hours, six hours of which will be devoted to a thesis.

Master of Arts

Core Courses
HPER 8000 Research in HPER 6 hours
HPER 8220 Problems and Issues in HPER

Specialization Courses
(Specific courses will be selected from the following according to area of emphasis and consultation with an advisor.)
HPER 8000 Special Studies
HPER 8100 Research Project
HPER 8300 Analysis of Research and Literature in HPER
HED 8205 Health Promotion at the Workplace
HED 8250 Health Promotion in the Workplace
HED 8300 Human Sexuality
HED 8330 Alcohol Education
HED 8350 Health Aspects of Aging
HED 8380 Health Aspects of Stress Management
PE 8016 Laboratory Methods in Exercise Science
PE 8020 Human Sexuality
PE 8026 Behavioral Aspects of Coaching Athletes
PE 8036 Measurement and Evaluation in Physical Education
PE 8050 Topics in Sports Medicine
PE 8060 Sport in American Culture
PE 8200 Curriculum in Physical Education
PE 8270 Improvements in Instruction in Physical Education
PE 8450 Motor Learning and Performance
PE 8500 Kinesiological Analysis of Motor Skills
PE 8510 Advanced Exercise Physiology
RSL 8246 Organization & Administration of Recreation
RSL 8306 Recreation Programming
RSL 8516 Recreation for the Mil & MR
RSL 8520 Recreation for the Aging
RSL 8530 Therapeutic Recreation Activity Analysis

Thesis Requirement
HPER 8990 Thesis 6 hours

Elective Courses
(Specific courses will be selected from the following according to area of emphasis and consultation with an advisor.)
HPER 8000 Special Studies
HPER 8100 Research Project
HPER 8300 Analysis of Research and Literature in HPER
HED 8205 Health Promotion at the Workplace
HED 8250 Health Promotion in the Workplace
HED 8300 Human Sexuality
HED 8330 Alcohol Education
HED 8350 Health Aspects of Aging
HED 8380 Health Aspects of Stress Management
PE 8016 Laboratory Methods in Exercise Science
PE 8020 Human Sexuality
PE 8026 Behavioral Aspects of Coaching Athletes
PE 8036 Measurement and Evaluation in Physical Education
PE 8050 Topics in Sports Medicine
PE 8060 Sport in American Culture
PE 8200 Curriculum in Physical Education
PE 8270 Improvements in Instruction in Physical Education
PE 8450 Motor Learning and Performance
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PE 8510 Advanced Exercise Physiology
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RSL 8306 Recreation Programming
RSL 8516 Recreation for the Mil & MR
RSL 8520 Recreation for the Aging
RSL 8530 Therapeutic Recreation Activity Analysis

Elective Courses
(Specific courses will be selected from the following according to area of emphasis and consultation with an advisor.)
HPER 8000 Special Studies
HPER 8100 Research Project
HPER 8300 Analysis of Research and Literature in HPER
HED 8205 Health Promotion at the Workplace
HED 8250 Health Promotion in the Workplace
HED 8300 Human Sexuality
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HED 8350 Health Aspects of Aging
HED 8380 Health Aspects of Stress Management
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PE 8020 Human Sexuality
PE 8026 Behavioral Aspects of Coaching Athletes
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PE 8450 Motor Learning and Performance
PE 8500 Kinesiological Analysis of Motor Skills
PE 8510 Advanced Exercise Physiology
RSL 8246 Organization & Administration of Recreation
RSL 8306 Recreation Programming
RSL 8516 Recreation for the Mil & MR
RSL 8520 Recreation for the Aging
RSL 8530 Therapeutic Recreation Activity Analysis

Health Education

8600 Topics in Health Education (3) This course will explore important current trends in Health Education. Students will explore economic, political, ethical, and technological developments that affect the practice of Health Education. There is no limit to the number of times a student may
4280/5286 Health Promotion at the Workplace (3) A study of the practice of health promotion in the workplace. Principles of sound program planning, implementation, and management will be explored. The student will study workplace health promotion in relation to cost analysis, health behavior, program content, the insurance industry, and program evaluation.

4550 Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging person. Special emphasis will be given to biological changes that have implications for disease and health in the elderly. PreReq: Graduate standing.

8050 Alcohol Dependence Workshop for Educators (1) A concentrated look at problems which are associated with the misuse of alcohol. Emphasis will be given to biological changes that have implications for disease and health in the elderly. PreReq: Graduate standing.

8260 Supervision of Physical Education (3) in the construction and supervision of programs of physical education. Includes a review of basic descriptive statistics. Practical experience in test administration is provided. PreReq: For 8260, a standing and physical education 2380 (SSD).

8280 Curriculum in Physical Education (3) A study of the foundations for curriculum development and related educational problems. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education.

8600 Motor Learning and Performance (3) A study of conditions and factors which influence the learning and performance of motor skills with particular reference to the effectiveness of teaching techniques. PreReq: PE-2510 or equivalent.

8650 Therapeutic Recreation: Delivery Models (3) A study of service delivery models for the ill and disabled in both institutional and community settings. This course is designed to provide a foundation for the development of therapeutic recreation services for special populations and places particular emphasis on advanced leadership and therapeutic interpersonal skills and dynamics. PreReq: RED 2550 or Permission of Instructor.

8700 Improvement of Instruction in Physical Education (3) This course is designed to make the student aware of the determinants of health behavior. Major topics to be emphasized include: guided exercise test and electrocardiography, nutrition of oxygen uptake, body composition, neuromuscular function, and muscle endurance. PreReq: PE-2510 or equivalent.

8950 Advanced Exercise Physiology (3) This course is designed for students with an interest in exercise physiology. Major topics to be emphasized include: exercise test and electrocardiography, nutritive oxygen uptake, body composition, neuromuscular function, and muscle endurance. PreReq: PE-2510 or equivalent.

8980 Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging person. Special emphasis will be given to biological changes that have implications for disease and health in the elderly. PreReq: Graduate standing.

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9000 Health Promotion at the Workplace (3) A study of the practice of health promotion in the workplace. Principles of sound program planning, implementation, and management will be explored. The student will study workplace health promotion in relation to cost analysis, health behavior, program content, the insurance industry, and program evaluation.

9490/8490 Physiology of Exercise (3) A study of the physiological responses and adjustments of the human body to exercise and the response to exercise and the exercise programs. Includes application of physiological concepts to physical training and conditioning. PreReq: HPER 2280 or equivalent. T 5-week course in human anatomy.

9850/8850 Health Aspects of Stress Management (3) This course covers selected topics regarding the science and practice of stress management. Some areas to be covered include pharmacological aspects, psychological aspects, personal factors, and the role of the social environment. PreReq: Graduate standing.

ASSOCIATE PROFESSORS: Carrigan, Dalstrom, Garver, Overfield, Petrowski, Pollard, Pratt, St John, Toste.

8050 Alcohol Dependence Workshop for Educators (1) A concentrated look at problems which are associated with the misuse of alcohol. Emphasis will be given to biological changes that have implications for disease and health in the elderly. PreReq: Graduate standing.

8260 Supervision of Physical Education (3) in the construction and supervision of programs of physical education. Includes a review of basic descriptive statistics. Practical experience in test administration is provided. PreReq: For 8260, a standing and physical education 2380 (SSD).

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8600 Motor Learning and Performance (3) A study of conditions and factors which influence the learning and performance of motor skills with particular reference to the effectiveness of teaching techniques. PreReq: PE-2510 or equivalent.

8650 Therapeutic Recreation: Activity Analysis (3) This course will employ the use of research and planning techniques and explore basic areas of activity analysis, description and selection of activities. PreReq: RED 2550 or Permission of Instructor.

8700 Improvement of Instruction in Physical Education (3) This course is designed to make the student aware of the determinants of health behavior. Major topics to be emphasized include: guided exercise test and electrocardiography, nutritive oxygen uptake, body composition, neuromuscular function, and muscle endurance. PreReq: PE-2510 or equivalent.

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9850/8850 Health Aspects of Stress Management (3) This course covers selected topics regarding the science and practice of stress management. Some areas to be covered include pharmacological aspects, psychological aspects, personal factors, and the role of the social environment. PreReq: Graduate standing.
2. Students may be admitted provisionally who have less than 21 (twenty-one) hours of under-
graduate preparation, or who have not achieved a 2.75 overall grade average. They shall be
removed from provisional status when they become eligible for and have achieved candidacy.

3. The examination committee will consist of the sponsor and one other graduate faculty member
in the major area. The reader for the minor area, including the minor department and advisor,
will be responsible for the minor examination.

4. The examination will be oral. The committee will have a list of questions to which the student
will be asked to respond. The committee will rate the student's performance on a scale of 0 to 100,
with 80 being the passing grade. The exam must be completed within 1 week (7 days) of the
scheduled examination date.

5. The candidate must pass the examination within two semesters of the scheduled examination.

6. In the event of failure of either all or a portion of the examination, the student may request
an oral examination at any time after the scheduled examination date.

7. The candidate must pass the examination within two semesters of the scheduled examination.

8. In preparing for the 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.

9. If the candidate does not pass the examination within the time limits, the candidate must
reapply for admission to the program and pass the examination within the following time periods:

a. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

b. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

10. If the candidate does not pass the examination within the time limits, the candidate must
reapply for admission to the program and pass the examination within the following time periods:

a. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

b. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

11. If the candidate does not pass the examination within the time limits, the candidate must
reapply for admission to the program and pass the examination within the following time periods:

a. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

b. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

12. If the candidate does not pass the examination within the time limits, the candidate must
reapply for admission to the program and pass the examination within the following time periods:

a. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

b. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

13. If the candidate does not pass the examination within the time limits, the candidate must
reapply for admission to the program and pass the examination within the following time periods:

a. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

b. If the candidate does not pass the examination within the first year after the scheduled examination,
the candidate is not eligible to reapply for admission to the program.

14. If the candidate does not pass the examination within the time limits, the candidate must
reapply for admission to the program and pass the examination within the following time periods:

a. If the candidate does not pass the examination within the first year after the scheduled examination,
DEGREE REQUIREMENTS

as a significant world power. Prereq: For 4240, junior standing or permission of the instructor.
4270/8276 Twentieth Century America to 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 4272, junior standing or permission of the instructor.
4280/8286 Twentieth Century America Since 1932 (3) A study of the history of the United States since the election of Franklin D. Roosevelt to presidency in 1932. Prereq: For 4280, junior standing or permission of the instructor.
4330/8336 Constitutional History of The United States Since 1560 (3) A history of constitutional theory and practice since 1560. Prereq: For 4330, junior standing or permission of the instructor.
4340/8346 Constitutional History of The United States Since 1860 (3) A history of constitutional theory and practice since 1860. Prereq: For 4340, junior standing or permission of the instructor.
4400/8406 History of North American Indians (3) A survey of North American Indian cultures, their contact with European peoples, and the continuing problems faced today. Prereq: For 4400, junior standing or permission of the instructor.
4430/8436 American Urban History (3) Historical survey of urban development in the United States from the colonial period to the present, with attention to urbanization as a social process affecting the nation at large as well as cities in particular. Prereq: For 4430, junior standing or permission of the instructor.
4470/8476 History of American Medicine and Public Health (3) Analysis of the relationship and interaction of medical thought and practice, public health problems and institutional development, and the changes in American society and culture from the 17th to the 20th century. Prereq: For 4470, junior standing or permission of the instructor.
4510/8516 Intellectual History of Modern Europe From the Renaissance to The French Revolution (3) A study of the intellectual, religious, economic, and philosophical ideas in their historical setting. Prereq: None.
4520/8526 Intellectual History of Modern Europe from the French Revolution to the Present: 1789-1987 (3) A study of the intellectual, religious, economic, and philosophical ideas in periods of extraordinary social change. Prereq: None.
4530/8536 The Age of the Renaissance-Refonrnation (3) A study of the politics and economics of the fifteenth and sixteenth centuries as well as the achievement of Renaissance culture and the emergence of the Reformation in church and state. Prereq: For 4530, junior standing or permission of the instructor.
4550/8556 The Age of Enlightenment (3) A study of the politics and economics of the late-eighteenth and early-nineteenth centuries as well as the emergence of modern secular thought and its impact upon traditional European society. Prereq: For 4550, junior standing or permission of the instructor.
4560/8566 The French Revolution and Napoleon Era 1789-1815 (3) A study of 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 4560, junior standing or permission of the instructor.
4570/8576 Europe Betrays Its Promise (1815-1919) (3) A study of course and revolution which resulted in the Balkanization of Europe.
4610/8616 Tudor and Stuart England (3) A study of England under the Tudors when the English people solidified the monarchy and experienced a golden age, and the Stuarts continued modernization and formalized the new institutions foreshadowing those of our world today. Prereq: None.
4620/8626 English History: From Empire to Welfare State (3) A study of the changing conditions and forces immediately preceding World War II, the war itself, the following the war and the state of the modern dictators. Prereq: For 4620, junior standing or permission of the instructor.
4670/8776 Europe in Crisis: 1919-1932 (3) A study of a condition of the conditions and forces immediately preceding World War I, the war itself, the following the war and the state of the modern dictators. Prereq: For 4670, junior standing or permission of the instructor.
4770/8776 Europe in Crisis: 1919-1932 (3) A study of the conditions and forces immediately preceding World War I, the war itself, the following the war and the state of the modern dictators. Prereq: For 4770, junior standing or permission of the instructor.
4780/8786 Europe in The Global Age: 1933-2000 (3) A study of the events and conditions which led to the Balkanization of Europe.
4810/8816 Freud and the Instigation of the Modern Age (3) A study of the conditions and forces immediately preceding World War II, the war itself, the following the war and the state of the modern dictators. Prereq: For 4810, junior standing or permission of the instructor.
4820/8826 Advanced Research Project in History (1-5) Special problems in advanced research in history, arranged individually with graduate student. Prereq: 4 graduate advanced courses (including 2 seminars). Permission of the instructor.
4900 Seminar in History (3) A seminar in selected topics of history. Prereq: Junior standing or permission of the instructor.
5900 Thesis (1-6) Thesis research project written under supervision of an advisor.

MATHEMATICS

PROFESSORS: Bachelder, Downey, Dunning, Geissman, Kowalina, Maloney, Stephens
ASSOCIATE PROFESSORS: Heidell, Wilkerson

Admission Requirements: Admission to a degree program is based on evidence of mathematical ability. An applicant is expected to have completed intermediate algebra during the senior year. In some cases where the above criterion is not met, a provisional admission may be granted provided the applicant 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.
b. Choose Mathematics courses which carry a number of 8000 or above, with at least 9 credits at the 8000 level or above. An exception is that 9020 and 9040 may not be used for the Master of Science degree in Mathematics.
c. Maintain a "B" average in all of his or her work with no grade lower than a "C-" and no more than two grades of "C-".
d. Pass a written comprehensive examination.

If a student wishes, they may take up to 12 hours of graduate work in Physics or Computer Science. All non-mathematical courses that are taken as part of a degree program 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 in mathematics combined with a core of relevant professional education courses. It also provides career change to those who have completed a bachelor's degree certifying them to teach in grades 7-12 and who want to add mathematics to their credentials will be admitted provisionally to the M.A.T. program upon completion of Math 1500, Math 1505, Math 1515, and Math 1520 with a GPA of 3.00 or better.

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 the above conditions noted and a satisfactory record, in a manner that may be admitted to the program only as a result of special action by the M.A.T. Program Committee. A student who has completed a bachelor's degree certifying them to teach in grades 7-12 and who want to add mathematics to their credentials will be admitted provisionally to the M.A.T. Program upon completion of Math 1500, Math 1505, Math 1515, and Math 1520 with a GPA of 3.00 or better.

Plays of plans 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 and at least 9 in courses offered by Secondary/Post-Secondary Teacher Education. The three plans are: Mathematics, Computer Science, and Mathematics and Computer Science, totaling 15 semester hours in each plan.

1. Required Mathematics courses for all plans: CS 1610 or equivalent (graduate credit), M3105, M3235, M4036, M6200, M8480.
2. Required Education courses for all plans: Three courses for graduate students only: 3 semester hours credit, in Secondary/Post-Secondary 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 advisor.
3. Elective for all plans: One course for graduate students 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 8005, Stat 8015, M 8505 (Selected Topics Statistical Research for Math Teachers).
(b) Mathematics Option: Student selects 3 courses in Mathematics M8006 level or above.
Computer Science


3120/8125 Information Systems Analysis (3) Decision-making processes, systems life cycle, logical design of information systems. Math/CS 2300 and Math/CS 2350 (formerly CS 2350).

3220/8225 Programming Methodology (3) The study of software production and quality, including: program development, quality assurance methods, and software testing. Prereq: CS 2350 and Math/CS 2030 (formerly CS 2350).


810 Advanced Topics in Optimization (3) Topics selected by the instructor. Prereq: Instructor approval and graduate classification. May be taken more than once. Mathematics majors may apply no more than 3 hours of Math 8505 toward the minimum major requirements. Mathematics majors may not apply to M.S. or Ph.D. in mathematics. Prereq: Permission of instructor.

860/8645 Modern Geometry (3) Abstract systems, finite geometries, modern foundations of Euclidean geometry, hyperbolic geometry, other non-Euclidean geometries, projective geometry.

Mathematics

1100/1105 Applied Combinatorics (3) Basic counting techniques, generating functions, recurrences, and their applications. Prereq: Math/CS 2030 (formerly CS 2350). Math/CS 2350 or Math/CS 2500 and one of CS 1620, 1800, or 1820.

4110/4120/8116-8126 Abstract Algebra (Each 3) An advanced undergraduate (beginning graduate) course in algebraic structures to include the Sylow theorems, rings and ideals, fields, and Galois theory. Math/CS 4500 or instructor's permission required. Prereq: Math/CS 4500 and Math/CS 4600.


350/8505 Selected Topics in Mathematics (1-6) This is a variable course with selected topics in point set topology and measure theory. Prereq: Math/CS 4500. May be of interest to students in other disciplines such as mathematics, education, psychology, economics, etc. The course may be taken more than once for credit. The maximum credit is 4 hours. Mathematics majors may apply no more than 3 hours of Math 8505 toward the minimum major requirements. Mathematics majors may not apply to M.S. or Ph.D. in mathematics. Prereq: Instructor's permission.


4520/4546 Advanced Calculus (3) Analysis of functions of several variables, partial differentiation and multiple integrals. Prereq: Math/CS 2360 and instructor's permission. Prereq: Math/CS 3600 and Math/CS 4600.

4700/4726 Mathematical Analysis (1) A theoretical course in the concepts of elementary calculus. Prereq: Math/CS 2350 and Math/CS 2360.

4900/4926 Mathematical Analysis (1) A theoretical course in the concepts of elementary calculus. Prereq: Math/CS 2350 and Math/CS 2360.

5810/5836 Mathematical Analysis (1) A theoretical course in the concepts of elementary calculus. Prereq: Math/CS 2350 and Math/CS 2360.

5820/5846 Mathematical Analysis (1) A theoretical course in the concepts of elementary calculus. Prereq: Math/CS 2350 and Math/CS 2360.

5860/5886 Mathematical Analysis (1) A theoretical course in the concepts of elementary calculus. Prereq: Math/CS 2350 and Math/CS 2360.
4270/8276 Complex Variables
3 Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus, and applications. Prereq: Math 2320 or advanced calculus.

4300/8300 Linear Programming (3) Theory of the simplex method, duality, and obtaining an initial basic feasible solution. The dual and revised simplex algorithms. Parametric Linear problems, Sensitivity analysis, modeling and implementing LP programs on computer as CS 3800/8300. Prereq: Math/CS 2050 and one of CS 1020, 1801, or 1802.

4310/8316 Discrete Optimization (3) The mathematical foundations and solution algorithms of discrete optimization problems including transportation problems, network problems, and integer programming. Same as Cs 4310/8316. Prereq: Math/CS 4300/8300.


4410/8416 Introduction to The Foundations of Mathematics (3) Logic, the axiomatic method, properties of axiomatic systems, set theory, cardinal and ordinal numbers, metamathematics, construction of the real number system, historical development of the foundations of mathematics, recent developments. Prereq: For 4410, senior standing.

4510/8516 Theory of Numbers (3) Divisibility and primes, congruences, quadratic reciprocity, Diophantine equations, and other selected topics. Prereq: At least one math course numbered 3000 or above.

4600/8606 Tensor Analysis (3) A review of vector calculus, study of tensors and tensor tensors, applications to geometry and mechanics. Prereq: Math 3110 or permission of the instructor.


8766 Stochastic Modeling (3) Examination and construction of various probabilistic models including Markov chains, Poisson Processes, renewal theory and queuing systems. Same as CS 3760/8766. Prereq: Math 3760.

8020 Topics in Geometry and Topology (3) Selections from the following: affine, projective, and non-Euclidean geometries; pointset topology and elementary differential geometry. Prereq: Instructor's permission. Prereq: Permission of instructor and graduate classification.

8900 Graduate Seminar (1-3) A graduate seminar in mathematics. Undergraduate students must obtain permission of instructor. Prereq: Permission of instructor and graduate classification.

8900 Thesis (1-6)

9110 Advanced Topics in Applied Mathematics (3) Topics selected from applied algebra, applied linear algebra, coding theory, graph theory, dimensional analysis, numerical analysis, etc. May be repeated for credit with permission of the graduate advisor. Prereq: Permission of the instructor.

Statistics

3000/8005 Statistical Methods I (3) Distribution, introduction to measures of central tendency and dispersion of sample and population, and the normal distribution. Introduction to single population, inference: Two populations, introduction to regression and correlation. Prereq: Statistical package on the computer or math 1301 or equivalent.

3100/8105 Statistical Methods II (3) Regression and correlation, analysis of covariance, chi square type statistics, more analysis of variance, questions of normality, introduction to nonparametric methods. Statistical packages are used when appropriate. Prereq: Statistics 8005 or equivalent.

MUSIC

PROFESSORS: Low, Peters, Prince, Ruetz, Shandor
ASSOCIATE PROFESSORS: Bates, Foltz, Mullen, Sabor, P. Todd
ASSISTANT PROFESSORS: McCrory

Music Performance Program of Study

MUSIC PERFORMANCE PROGRAM OF STUDY

Applied Music (3) Music bibliography
Music History
Analytical Techniques
Biblical Music
Special Topics or Electives (6) Total Semester Hours: 18 hours

Applicants must have earned a baccalaureate degree in Music from a recognized institution of higher education. The student must have a cumulative average of 3.0 or better GPA (on a 4.0 scale) in all music courses or a 3.0 or better GPA in all upper division music courses. If the applicant does not meet one of the GPA requirements, s/he will be assigned to the program. An applicant who meets only one of the GPA requirements (overall or upper division) must take the Music Department Diagnostic Exam before s/he can be admitted to the program. The student will be required to complete undergraduate coursework to satisfy any deficiencies that the diagnostic exam indicates.

Master of Music

The Department of Music offers graduate courses in the areas of music education, performance, and theory and history. The degree requires a total of 30 or 36 credit hours to complete, and may include the program in either performance or music education.

MUSIC PERFORMANCE PROGRAM OF STUDY

Applied Music (3)
Music Bibliography (3)
Music History (3)
Analytical Techniques (3)
Biblical Music (3)
Special Topics or Electives (6) Total Semester Hours: 18 hours

Graduate Performance Program in Music

Music Performance Program of Study

MUSIC EDUCATION PROGRAM OF STUDY

Music Education (6)
Music History (3)
Electives in Music (3) Total Option A: 12 hours
Option B: Additional Hours (9) Total Option B: 9 hours

*Graduate Performance Program in Music may include a related study field.

In some cases, the student may be required for credit with permission of the graduate advisor. Same as CS 8520/26. Prereq: Math 3110/815.

9700 Independent Study (3) Under this number a graduate student may pursue studies in an area that is not normally available to him in a formal course. The topics studies will be a graduate seminar in mathematics, or determined by the instructor. Prereq: Permission of instructor and graduate classification.

9900 Thesis (1-6)
I: 4580 18586 Music in History 2550, 2560 and to 2560. 2.570, and graduate standing in literature from c. 1750-1815. Prereq: Music 2.550, 2.560, 2.570.

2420 or the permission of the instructor.

Twentieth Century Styles (3) This course will study 20th Century music through a historical program of analysis and practical application of the various styles and techniques and individual stylistic qualities that contribute to identification of individual studies in college music programs. It is designed for those students who are unfamiliar with the music of the period. Prereq: Music 2520 or permission of the instructor.

Advanced Orchestration (3) This course will present students to advanced orchestration techniques with special emphasis. Advanced orchestration techniques will be approached by scoring excerpts with special attention to scoring for a full orchestra using advanced orchestration. This course will be an intensive study of score preparation, especially those from impressionists to the present. This course is intended for all students who wish to arrange or compose music for Winds, strings, or other large ensembles. Prereq: Music 2560 or permission of the instructor, and graduate standing.

History of the Lyric Theater (3) This course will present an historical approach to the world of opera in the western world from 1600 to the present. This course is intended for the student interested in attending opera. Prereq: Music 2560 or permission of the instructor, and graduate standing.

Renaisssance Music Literature (3) This course is intended for music majors who wish to take a comprehensive survey of music literature c. 1350-1600. Prereq: Music History 2520, 2560, 2570, and graduate standing.

Bach Choral Music Literature (3) This course is intended for music majors who wish to take a comprehensive survey of music literature c. 1650-1750. Prereq: Music History 2520, 2560, 2570, and graduate standing.

Baroque Music Literature (3) This course is intended for music majors who wish to take a comprehensive survey of music literature c. 1650-1750. Prereq: Music History 2520, 2560, 2570, and graduate standing.

Music in History (3) This course is intended for music majors and non-music majors who wish to undertake a comprehensive survey of music literature from the Baroque period to the present. Prereq: Music History 2520, 2560, 2570, and graduate standing.

Music and Society (3) This course is intended for music majors and non-music majors who wish to undertake a comprehensive survey of music literature from the Baroque period to the present. Prereq: Music History 2520, 2560, 2570, and graduate standing.

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Applied Music 1 (3) or Elective level for graduate students in music.

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Music in History (3) This course is intended for music majors and non-music majors who wish to undertake a comprehensive survey of music literature from the Baroque period to the present. Prereq: Music History 2520, 2560, 2570, and graduate standing.

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Music in History (3) This course is intended for music majors and non-music majors who wish to undertake a comprehensive survey of music literature from the Baroque period to the present. Prereq: Music History 2520, 2560, 2570, and graduate standing.
4200/8256 International Politics of Asia (3) Analysis of contemporary relations among the Asian states and the influence of external actors on the study of the contemporary political system of Asia. Pre-requisite: For 9200, junior standing.


2260/8286 Inter-American Politics (3) Analysis of the foreign relations of the Americas with emphasis on the political systems of Latin America and the Caribbean. Jr. standing.


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

4320/8326 Political Philosophy II (3) Textual analysis of leading works of early modern philosophy. Jr. standing.

4330/8336 Political Philosophy III (3) Textual analysis of leading works of classical political philosophy: Burke, Mill, Marx. Jr. standing.

4350/8356 Decision Theory (3) A basic study of the theory, practice and practitioners of political democracy. Jr. standing.

4360/8366 Dictatorship (3) A basic study of the theory, practice and practitioners of political dictatorship. Jr. standing.

4370/8376 Communism (3) The Marxist message, its use as an instrument of political power, its worldwide extension, and the threat it poses for the American political system. Jr. standing.

4380/8386 Government and Politics of Contemporary France (3) An examination of the French political heritage, contemporary political institutions, and the political and social forces that influence them. Jr. standing.

4450/8450 Marxist Political Theory (3) An examination of the political thought of Marx and Engels. Jr. standing.

5290/8590 Seminar in the Research Methods of Political Science and Public Administration (3) A critical examination of the methods of data collection and analysis of political science research. Permission of the graduate advisor. (Also listed under political science)

5490 Seminar in American Government and Politics (3) An introduction to the political science department to students who are interested in political science. Sr. standing.


4900 Seminar in Social Science Research Methods (3) A study of the research methods of political science. Jr. standing.

4990 Seminar in Political Theory (3) Analysis of political theory and its impact upon practitioners of politics. Sr. standing.

8050 Seminar in Comparative Politics (3) An examination of the comparative political systems of the world. Sr. standing.

8900 Seminar in the Research Methods of Political Science and Public Administration (3) A critical examination of the methods of data collection and analysis of political science research. Permission of the graduate advisor. (Also listed under political science)

8910 Seminar in American Government and Politics (3) An introduction to the political science department to students who are interested in political science. Jr. standing.

P O L I T I C A L S C I E N C E

PROFESSORS: Camp, Kiewin, Menard
ASSOCIATE PROFESSORS: Bacon, Chenz, Farr, Johnson, B. Kolata

Admission Requirements: An applicant for admission to the Master of Arts or Master of Science program must present, as a prerequisite, a minimum of fifteen semester hours of undergraduate coursework in Political Science or her equivalent as determined by the departmental Graduate Admissions Committee. For unconditional admission the applicant must have at least a 3.0 grade point average in undergraduate political science coursework and must satisfy the Graduate College GRE requirements. In addition, the department requires two letters of recommendation from persons who are in a position to evaluate the applicant's potential for graduate studies before an applicant can be considered for unconditional admission.

Master of Arts

Degree Requirements: The program is intended for those who expect to pursue a doctoral degree. The student must complete thirty, semester hours, twenty-four of coursework and six of thesis supervision. Students must maintain a B (3.0) average in their coursework, receiving no more than one C. The thesis is expected to be a major piece of scholarship. From the four subfields of Political Theory, American Politics, Comparative Politics and International Politics, the student will select an emphasis in two. Twelve hours of coursework will be taken in one area of emphasis and six hours in the other. The remaining coursework is elective and may include cognate courses in related disciplines. Of the twenty-four hours of coursework twelve must be at the "O" level, including 8000 (Research Methods and Tools) and 8200 (Thesis). A minimum of thirty-six semester hours must be completed to receive the Master of Arts. At least three of the thirty-six hours must be taken at the University of Wisconsin-Madison. No more than twelve hours may be transferred from another institution.

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 600 level, including 8300 (Research Methods). The student will select courses from the Political Science curriculum but may include up to nine hours of cognate courses in related disciplines. Students must maintain a B (3.0) average in their coursework, receiving no more than one C. Degree candidates must pass written comprehensive examinations covering their areas of study. The aim is to tailor each student's program to fit his or her personal or career interests.

4030/8036 The Presidency (3) The rise of the institution from Washington to the present, to the political, administrative and ethical questions which it presents. The power and its abuse as in the case of Watergate. Jr. standing.


4280/8286 International Politics of Asia (3) Analysis of contemporary relations among the Asian states and the influence of external actors on the study of the contemporary political system of Asia. Pre-requisite: For 9200, junior standing.

4290/8326 Political Philosophy I (3) Textual analysis of leading works of classical political philosophy: Plato and Aristotle. Jr. standing.

4300/8336 Political Philosophy II (3) Textual analysis of leading works of early modern philosophy. Jr. standing.

4310/8316 Political Philosophy III (3) Textual analysis of leading works of classical political philosophy: Burke, Mill, Marx. Jr. standing.

4350/8356 Decision Theory (3) A basic study of the theory, practice and practitioners of political democracy. Jr. standing.

4360/8366 Dictatorship (3) A basic study of the theory, practice and practitioners of political dictatorship. Jr. standing.

4370/8376 Communism (3) The Marxist message, its use as an instrument of political power, its worldwide extension, and the threat it poses for the American political system. Jr. standing.

4380/8386 Government and Politics of Contemporary France (3) An examination of the French political heritage, contemporary political institutions and the political and social forces that influence them. Jr. standing.

4390/8390 Seminar in Political Science (3) A seminar on selected topics based upon analysis of leading works of political science. Jr. standing.

DEGREE REQUIREMENTS
Program of Study

The first year of the MPA program focuses on the Common Body of Knowledge as defined by the AACSB and sufficient undergraduate accounting preparation to pursue graduate education. These courses may be waived upon satisfactory evidence of prior preparation. In the second year, students complete a core of required courses in accounting and the supporting discipline. In consultation with an advisor, electives may be selected to meet a student’s specific career goals. The program does not require a thesis or comprehensive examination, but a thesis may be elected.

Admission Requirements

All applicants must meet the requirements of the Graduate School as stated in the Graduate Catalog. Applicants must submit a completed application, official copies of all transcripts and results of the Graduate Management Admission Test (GMAT) prior to admission to the program. Although other factors are considered, the admission formula is:

Graduate Management Admission Test (GMAT) + Undergraduate GPA = 1070

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

Foundation Courses

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<th>Course</th>
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<tbody>
<tr>
<td>Acc 4110</td>
<td>Survey of Accounting</td>
<td>BA 8140</td>
<td>Business Law Survey</td>
</tr>
<tr>
<td>Acc 3302</td>
<td>Tax Accounting</td>
<td>BA 8150</td>
<td>Survey of Managerial Thought</td>
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<tr>
<td>Acc 3000</td>
<td>Intermediate I</td>
<td>BA 8170</td>
<td>Quantitative Survey</td>
</tr>
<tr>
<td>Acc 3410</td>
<td>Intermediate II</td>
<td>BA 8190</td>
<td>Foundations of Economics</td>
</tr>
<tr>
<td>Acc 3560</td>
<td>Cost Accounting</td>
<td>FPI 2250</td>
<td>Corporate Finance</td>
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<tr>
<td>Acc 3050</td>
<td>Accounting Information Systems</td>
<td>MRT 3310</td>
<td>Marketing</td>
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<tr>
<td>Acc 4080</td>
<td>Principles of Auditing</td>
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Other Electives

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<tr>
<td>Acc 3090</td>
<td>Accounting Theory</td>
<td>Acc 8210</td>
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<tr>
<td>Acc 3080</td>
<td>Accounting Electives</td>
<td>Acc 8220</td>
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<tr>
<td>Acc 8230</td>
<td>Seminar in Accounting</td>
<td>Acc 8250</td>
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<td>Acc 8240</td>
<td>Advanced Accounting</td>
<td>Acc 8250</td>
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<tr>
<td>Acc 8250</td>
<td>Federal Taxation of Corporations</td>
<td>Acc 8200</td>
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<tr>
<td>Acc 8260</td>
<td>Federal Taxation of Estates &amp; Trusts</td>
<td>Acc 8290</td>
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<tr>
<td>Acc 8275</td>
<td>Accounting for Not-For-Profit Organizations</td>
<td>BA 8900</td>
</tr>
</tbody>
</table>

Other Electives (6 hrs.)

In consultation with the MPA director, six (6) hours of additional graduate work may be selected.

Other Requirements

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 Catalog.
4. Students must earn a minimum grade of "B" in BA 8800 to successfully complete the course as a graduation requirement.

401/406 Advanced Accounting (3 MA study of accounting theory, external reporting, consolidated statements, and partnerships, and the accounting for installment sales, branches, and foreign operations. Pre: ACC 3040, Intermediate Accounting I)

404/405 Federal Taxation of Corporations and Partnerships (3) Analysis of the fundamental areas involved in the federal income taxation of corporations, corporate shareholders, and partnerships. Pre: ACC 3020 or equivalent.

403/404 Tax Issues for Decision-Making (3) An introduction to the basic taxation principles for the non-accountant. This course is designed to elevate the tax awareness of non-accountants to provide tax knowledge for future decision makers. Credit will not be given for this course if the student has completed Accounting 200Z. Pre: MPA 5500, Accounting 200Z or equivalent.

407/408 Not-for-Profit Organizations (3) A study of the accounting, auditing techniques, reporting requirements, and the financial operating characteristics of not-for-profit organizations. Pre: ACC 8220.

409/400 Financial Auditing (3) Professional accounting reporting obligations are emphasized. Pre: ACC 4060.


8220 Federal Estate and Gift Taxation (3) Analysis of the federal income taxation of estates, trusts, and beneficiaries, estate transfer taxes, trusts, and their beneficiaries. Credit will not be given for this course if the student has completed Accounting 200Z. Pre: MPA 5500, Accounting 200Z or equivalent.

8230 Controllership (3) An analysis of the concepts and techniques of the Controllership function with emphasis on tactical and strategic planning and control. Pre: ACC 3050 and DS 2120.

8250 Seminar in Accounting (3) A study of a specific area within the accounting discipline. Prerequisite: Accounting 200Z or equivalent. The seminar covers auditing, financial, managerial, and international areas and is available only with prior approval. Credit will not be given for this course if the student has completed Accounting 200Z. Pre: ACC 3050, Accounting 200Z or equivalent.

8260 Tax Research and Planning (3) This course is designed to supply students with a working knowledge of the methodology applied in solving tax research and planning problems.
**DEGREE REQUIREMENTS**

application. Peruse Act 3020 or its equivalent and graduate standing.

**8900 Independent Research** (3) Individual research supplementing graduate work in a specific area within the Accounting discipline. May be repeated to a maximum of six hours. Peruse Permission of Instructor.

**8910 Special Topics in Accounting** (3) A selected number of advanced topics in the field of Accounting. May be repeated to a maximum of six (6) hours. Peruse Permission of Instructor.

**Psychology**

**PROFESSORS:** Becker, E. Brown, Dellenbacker, Hanes, Hendricks, LaVoie, Millman, Newton, Wampold

**Associate Professors:** R. W. Woodry

**ASSISTANT PROFESSORS:** Feinberg, French, Hanson, Harrison, G. Simpson, Thomas

**ADJUNCT FACULTY:** Dwyer, Dossent, Greenberg, Jesteadt, Kessler, Rosenberg

**COURTESY FACULTY:** Argie, Bennis, Fox, Gard, Hornby, Lebowitz, Madison, McNichol, Robinson, Rodriguez-Sierra, Stender, W. Woodruff

**ROBINSON REQUIREMENTS:** including basic statistics and an upper level laboratory course emphasizing the laboratory method.

- The General, Quantitative, and Analytical sections are required for admission. An admission
- The GRE test score is not required for admission to the Master's program, and the Ph.D. program. A score of 600 on the GRE is recommended.
- The evaluation of admission for all students applying to the Master's program is based primarily on GPA and any graduate coursework completed since graduation. The average of the three sections
- A student whose composite score falls below 800 may not be considered for admission.
- Letters of recommendation are required. However, applicants who believe that the following criteria
- Exceptions to these admission requirements can be made on an individual basis.

**COMPREHENSIVE EXAMINATION - MASTER'S DEGREE PROGRAM:** The comprehensive examination for the Master of Arts and Master of Science degrees consists of two parts:

1. The advanced GRE subject test in Psychology on which the student must score at least 500.
2. The student must take the advanced GRE subject test at least six times each year in the summer of 600. This

**Masters of Arts**

To complete the M.A. degree with a major in psychology, the student must present 30 hours of graduate coursework in psychology or 21 hours in psychology plus 9 hours in a related minor field.

The student must choose one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

A. Psychology 9450 (Proseminar in Learning)
B. Psychology 9550 (Proseminar in Developmental Psychology)
C. Psychology 9500 (Proseminar in Perceptual Psychology)
D. Psychology 9650 (Proseminar in Social Psychology)
E. Psychology 9750 (Proseminar in Personality)
F. Psychology 9760 (Proseminar in Personality)
G. Psychology 9780 (Proseminar in Social Psychology)

**Masters of Science**

To complete the M.S. with a major in educational psychology, the student must present 36 hours of graduate coursework in psychology. The courses to be taken are the general introductory curriculum, the Master's degree program is based primarily on GPA and any graduate coursework completed since graduation. The average of the three sections

A. Psychology 9450 (Proseminar in Learning)
B. Psychology 9550 (Proseminar in Developmental Psychology)
C. Psychology 9500 (Proseminar in Perceptual Psychology)
D. Psychology 9650 (Proseminar in Social Psychology)
E. Psychology 9750 (Proseminar in Personality)
F. Psychology 9760 (Proseminar in Personality)
G. Psychology 9780 (Proseminar in Social 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, and developmental psychology. Students may be admitted to both programs in psychology, the Master's degree which is intended to familiarize the beginning graduate student with the profession of psychology and is required of all graduate students in psychology. The student may emphasize one of the following areas: quantitative methods, research design, and methodology, 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 graduate study 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 educational/organizational psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate coursework in psychology. The courses to be taken are the general introductory curriculum, the Master's degree program is based primarily on GPA and any graduate coursework completed since graduation. The average of the three sections

A. Psychology 9450 (Proseminar in Learning)
B. Psychology 9550 (Proseminar in Developmental Psychology)
C. Psychology 9500 (Proseminar in Perceptual Psychology)
D. Psychology 9650 (Proseminar in Social Psychology)
E. Psychology 9750 (Proseminar in Personality)
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**Doctor of Philosophy**

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**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 those for students leading to certification.

**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, and developmental psychology. Students may be admitted to both programs in psychology, the Master's degree which is intended to familiarize the beginning graduate student with the profession of psychology and is required of all graduate students in psychology. The student may emphasize one of the following areas: quantitative methods, research design, and methodology, 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 graduate study requirements a student must take at least half of the work in courses which are open only to graduate students.

**Doctor of Philosophy**

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**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, and developmental psychology. Students may be admitted to both programs in psychology, the Master's degree which is intended to familiarize the beginning graduate student with the profession of psychology and is required of all graduate students in psychology. The student may emphasize one of the following areas: quantitative methods, research design, and methodology, 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 graduate study requirements a student must take at least half of the work in courses which are open only to graduate students.
or

Since individuals may have widely variant backgrounds, considerable certification as a school psychologist following Fall semester. Before addition. Filing of previous college interviews by all least two members of the School Psychology Committee.

Psychology Department. Admission to the program signifies that the student's program has been approved. Students must contact the School Psychology Committee when starting their studies in order to facilitate individual program planning. The student's advisor should be a member of the School Psychology Committee. The Ed.S. degree in psychology requires completion of 66 graduate hours including those taken for the Masters degree. The requirements for this degree are the same as for those leading to certification as a school psychologist with one addition. The degree candidate must write and defend a field project which deals with research or supervised experience in the area of school psychology.

The student must consult with the Department of Psychology.

1. Required Courses in Psychological Methods
   Psychology 8316 for (310) Professional and Educational Testing
   Psychology 8320 Introduction to School Psychology
   Psychology 8330 Psychological Individual Tests
   Psychology 8340 Individual Tests II
   Psychology 8341 Advanced Educational Psychology
   Psychology 9970 Topical Seminar in School Psychology
   Psychology 9971 Topics in Educational Psychology
   Psychology 9971 Advanced Seminar in School Psychology
   Psychology 9971 Seminar in Educational Psychology

2. Required Professional Education Courses
   COPN 8000 Counseling Practices
   EMAD 8000 Introduction to Educational Administration and Supervision
   EMAD 8000 Introduction to Educational Administration and Supervision
   EMAD 8000 Introduction to Educational Administration and Supervision
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3. Required Supporting Work
   COPN 8000 Counseling Practices
   EMAD 8000 Introduction to Educational Administration and Supervision
   EMAD 8000 Introduction to Educational Administration and Supervision
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4. Practicum in School Psychology (Psychology 9970)
   The student's program must include at least 6 credit hours of practicum. The general rule is that 50 clock hours must be earned in a school setting. Each practicum is designed to emphasize the student's area of specialization.

   a. The student's program must be at least 6 credit hours of practicum. The usual practice is to have 50 clock hours.
   b. The practicum is required for the student's program. The practicum is required for the student's program. The practicum is required for the student's program.

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   y. The practicum is required for the student's program. The practicum is required for the student's program. The practicum is required for the student's program.
I.

1. Introduction to Behavior Modification (3)
   1.11 Conceptual Framework
   1.12 Methodological Framework
   1.13 Research and literature review of changing behavior through applied behavior analysis.

2. Psychological Testing (5)
   2.11 Test selection
   2.12 Test administration
   2.13 Test interpretation

3. Historical Development of Psychology (3)
   3.11 Psychology in the 19th century
   3.12 Psychology in the 20th century

4. Social and Personality Psychology (3)
   4.11 Group dynamics
   4.12 Personality development

5. Developmental Psychology (3)
   5.11 Infancy
   5.12 Toddlerhood
   5.13 Preschool years

6. Educational Psychology (3)
   6.11 Learning theories
   6.12 Classroom management

7. Abnormal Psychology (3)
   7.11 Psychopathology
   7.12 Treatment approaches

8. Research Methods in Psychology (3)
   8.11 Research design
   8.12 Data analysis

9. Psychology of Social Interaction (3)
   9.11 Interpersonal communication
   9.12 Group dynamics

10. Social Psychology (3)
    10.11 Social influence
    10.12 Social cognition

11. Cognitive Psychology (3)
    11.11 Information processing
    11.12 Memory and attention

12. Developmental Psychology (3)
    12.11 Cognitive development
    12.12 Language development

13. Personality and Individual Differences (3)
    13.11 Personality traits
    13.12 Individual differences

14. Neuroscience and Behavior (3)
    14.11 Neural basis of behavior
    14.12 Cognition and emotion

15. Psychological Assessment (3)
    15.11 Psychometric principles
    15.12 Assessment procedures

16. Psychological Research (3)
    16.11 Research methods
    16.12 Research design

17. History of Psychology (3)
    17.11 Early psychology
    17.12 Modern psychology

18. Psychological Development (3)
    18.11 Infancy
    18.12 Toddlerhood

19. Psychological Measurement (3)
    19.11 Scale development
    19.12 Test validity

20. Psychological Research (3)
    20.11 Research methods
    20.12 Research design

21. Psychology of Development (3)
    21.11 Cognitive development
    21.12 Language development

22. Psychology of Personality (3)
    22.11 Personality traits
    22.12 Individual differences

23. Psychology of Aging (3)
    23.11 Cognitive changes
    23.12 Emotional changes

24. Psychology of Development (3)
    24.11 Infancy
    24.12 Toddlerhood

25. Psychology of Learning (3)
    25.11 Classical conditioning
    25.12 Operant conditioning

26. Psychology of Development (3)
    26.11 Infancy
    26.12 Toddlerhood

27. Psychology of Personality (3)
    27.11 Personality traits
    27.12 Individual differences

28. Psychology of Aging (3)
    28.11 Cognitive changes
    28.12 Emotional changes

29. Psychology of Development (3)
    29.11 Infancy
    29.12 Toddlerhood

30. Psychology of Learning (3)
    30.11 Classical conditioning
    30.12 Operant conditioning

31. Psychology of Development (3)
    31.11 Infancy
    31.12 Toddlerhood

32. Psychology of Personality (3)
    32.11 Personality traits
    32.12 Individual differences

33. Psychology of Aging (3)
    33.11 Cognitive changes
    33.12 Emotional changes
9520 Linguistic Development (3) An in-depth analysis of a specific topic in psychology. Prereq: Permission of instructor.

9520 Proseminar in Developmental Psychology (3) A course designed to be a comprehensive summary of the various research fields that make up the field of developmental psychology. Prereq: Permission of instructor.

9530 Cognitive Development (3) A course on the philosophy of human development across the life span, with a focus on the experimental literature relating to human development. Prereq: Permission of instructor.

9570 Applied Behavior Analysis (3) A course on the philosophy of human development across the life span, with a focus on the experimental literature relating to human development. Prereq: Permission of instructor.

9580 Personality Assessment (3) A course on the philosophy of human development across the life span, with a focus on the experimental literature relating to human development. Prereq: Permission of instructor.

9590 Seminar in Developmental Psychology (3) A course on the philosophy of human development across the life span, with a focus on the experimental literature relating to human development. Prereq: Permission of instructor.

9600 Proseminar: Developmental Psychopathology (3) An in-depth analysis of a specific topic in psychology. Prereq: Permission of instructor.
The internship requires the equivalent of 15 weeks work at 20 hours per week in a staff position with a public or quasi-public agency. The internship requirement may be waived for prior professional or administrative service in a public or nonprofit agency. Where the internship is waived, an additional three-hour elective will be substituted.

In addition, a comprehensive written final examination is required of all MPA students.

**Admission**

The general prerequisite for admission to the MPA Program is a Bachelor of Arts 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 scale or its equivalent on either the full undergraduate program, for the undergraduate program of the Department of Public Administration, or for the junior-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), 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 applicant has achieved a grade average of 2.70 or above but has not 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 consultation with the Graduate Dean where the applicant has a 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 2.70 may be admitted provisionally should their public service record be exceptional or should some other significant indicator of ability to do graduate level work be established.

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

To apply for admission to the MPA program, a student 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 English Diagnostic Test administered by the Department of English and demonstrate through this test the ability to communicate orally and in writing in a manner sufficient to compete effectively at the graduate level with English-speaking native-born Americans.

Students must complete the TOEFL exam with a score of 550 or better.

They must take the English Diagnostic Test administered by the Department of English and demonstrate through this test the ability to communicate orally and in writing in a manner sufficient to compete effectively at the graduate level with English-speaking native-born Americans.

1. Should the student be unable to pass the TOEFL exam or meet the requirements as described in the English Diagnostic Test, they will be required to enroll in English as a Second Language courses offered by the English Department at UNO and demonstrate to the satisfaction of their instructor and the International Student and Exchange Visitor Program (ISEVP) that their English competency is adequate for graduate level coursework. 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 when: (1) a minimum of six hours of graduate credit necessary to the degree program have been completed; (2) a grade average of "B" with no grade lower than "C" has been earned; (3) the 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 incomplete work within their area of study.

Application forms should be filled out by the student in consultation with a faculty advisor — as soon as the student can qualify for admission to candidacy.

**Transfer of Credit**

Students may transfer up to 1/3 of the coursework required for the MPA degree requirements. This requires approval of the Graduate Program Committee. Students should discuss this with a faculty advisor. The request for a transfer of credit should be made as soon as possible but in no case later than when filing for candidacy. The request to transfer credits requires a letter of explanation from the student.

**Core and Required Courses**

The Department of Public Administration has six core courses, required for all MPA students.

1. PA 8406 Public Budgeting
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 the urban setting; (2) for research or teaching for those already engaged in urban programs and are seeking additional professional training.

Qualified students are being sought by a 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 prerequisite for admission to the Urban Studies Program is a Bachelor of Arts or Bachelor of Science degree or equivalent.

To be admitted unconditionally, the student must have achieved a grade average of 3.00 on a 4.00 system, for either the full undergraduate program, for the undergraduate major of Public Administration, or for the junior-senior years and must have completed all admission requirements for Graduate Studies. This includes completion of one of the following: The 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 applicant has achieved a grade average of 2.70 or above or has not 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 consultation with the Graduate Dean where the applicant:

- has a demonstrated record of work experience directly related to Urban Studies
- has a graduation date at least four years previous to application
- has demonstrated through recent coursework an ability to 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 3.0 for all course work in the above academic level, and (3) the applicant has achieved the appropriate graduate examination scores (GRE, MAT, GMAT, or LSAT) have been placed on file with the Graduate Office; and (4) the student is currently carrying no uncompleted courses.

Application forms should be filled out by the student — in consultation with a faculty advisor — as soon as the student can qualify for admission to candidacy. A detailed resume must be included in the application.

Transfer of Credit

Students may transfer up to 1/3 of the coursework required for the Urban Studies degree requirements. Transfer requires approval of the Graduate Program Committee. Students should discuss this with a faculty advisor. The request for transfer of credits 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, and nine credit hours must be taken from one of the concentrations. The required courses include Urban Studies 8801, 8802, 8826, 8830, 8840, 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, 8156, 9240; Public Administration 8950, 8940, 8910; Sociology 8116, 8146, 8750; Geography 8116, 8316, 8416; Counseling and Guidance 8000, 8026, 8706; Geography 8106, 8136, 8840, 8810. A maximum of nine hours of optional credit may be selected from Economics 8316, 8336, 8338, 8526; History 9436, 9466, 9476; 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 or a comprehensive final examination is required, but a thesis is not required.

Public Administration
108 \textbf{DEGREE REQUIREMENTS}

the environment of public administration, introducing the student to public organization theory and the processes and functions of problems of the public administration process. Prereq: Course in American government or permission.

806Introduction to Urban Planning (3) This course will serve as an introduction to the development and urban planning as it has shaped and reacted to major trends in U.S. history. It will provide students with major themes and traditions in the field and the tools and will include planning practice, planning procedures and methods and concern with the field. Prereq: none other than graduate status.

806 Seminar in Public Policy (3) A study of the economic and political determinants of public policy in terms of administration and determining and measuring and evaluating policy impact. The course includes both study of general policy processes and, to a lesser extent, particular policy topics. Prereq: Permission of advisor.

4430 8436 Municipal Administration (3) The administrative structure and administrative practices of American cities covering such areas as finance, personnel, public works, public safety, health, utilities, and planning. Prereq: PA 2170 or PA 8050 or Permission of Graduate Advisor.

4846 Public Sector Labor Relations (3) This course deals with the origin, characteristics, and implications of public sector employee unions and how they relate to public sector personnel practices. Prereq: Permission of advisor.

8466 Administrative Law (3) A review of the principal elements of the role and character of legal processes in government administration, including delegation of power, legal forms of administrative action, liability of government units, officers and agents, judicial review of administrative action. Prereq: Permission of graduate advisor.

8906 Special Topics (1-3) A variable content course with Public Administration and Urban Studies topics selected in accordance with student and faculty interest. Possible topics include urban homesteading, administrative federalism, and economic development and the public sector. Prereq. Prereq: Permission of advisor.

8800 Seminar in the Research Methods of Political Science and Public Administration (11-12) A critical investigation of the methodologies of data collection and analysis for political science and public administration research. (Also listed under political science.) Prereq: 2170. permission of graduate advisor.

8100 Seminar in Public Administration (3) An in-depth study of the relationships existing between the goals of public administration on the one hand, and the processes of government on the other. The emphasis is principally on broad conceptual and theoretical administrative issues as they condition each other. Prereq: Permission of graduate advisor.

8040 Budgeting (3) A study of public sector budgeting, including revenues, history, process, approaches, techniques, policies and reform. Prereq: PA 9170 or PA 9170.

8410 Public Personnel Management (3) A study of the personnel process in American government. The course examines the problems of recruiting, selecting, and operating public bureaucracies as well as problems in personnel leadership, neutrality, accountability, and performance. Prereq: PA 2170 or PA 8050.

8420 Introduction to Public Organizations (3) A study of the various approaches to understanding public organization and some client studies of these approaches to the design and functioning of public and private organizations in the research methods of the course. Prereq: PA 2170 or PA 8050 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, with emphasis on skills associated with organizational problems is stressed. Prereq: PA 2170 or PA 8050 or Permission of advisor.

8450 Seminar in Advanced Management Analysis in Public Agencies (3) A study of theory and method related to analysis of problems of organization and work flow in public agencies. The course includes problem analysis, field study methods, design of improved methods, selecting alternatives and developing executive packages. Prereq: PA 2170 or PA 8050 or approval of advisor.

8470 Administrative Ethics (3) This course is designed to make students public management aware of and sensitive to the ethical components of public sector administration. Ethical concerns permeate much of what public administrators do, and this course focuses on identifying common ethical concerns along with their implications and consequences. Prereq: PA 2170 or Public Administration or permission of the instructor.

8480 Seminar in Public Financial Administration (3) Financial organization, intergovernmental financial relationships, and the political and policy aspects of budgetary, planning and control. Prereq: Permission of graduate advisor.

5850 Issues in Public Sector Private Co-operation (3) This course introduces students to the organization and processes, as well as the tools and techniques, of public-private sector cooperation. The objective of such a course is to familiarize students with the various roles the public sector may play to develop and administer joint activities between the public and private sector, and the various ways private activities have become an important aspect of public administration in recent years. Prereq: Permission of advisor.

5850 Issues in the Administration of Non-Profit Organizations (3) This course focuses on the administrative processes of non-profit organizations and the relationships between non-profit organizations and government. Prereq: Permission of Advisor.

7800 Seminar in Grants and Contracts (3) A seminar in the development, acquisition and administration of grants and contracts. The course will include legal considerations of the seminar. Prereq: Graduate standing with P.A. major or permission of the Instructor.

8510 Seminar in Metropolitan Planning (3) An overview of the problems and methods of metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and urban development and annexation. Prereq: 4120 or recommendation from Prof of Soc, or consent of department. (Also listed under ge.)

9200 Readings in Public Administration (1-3) Specially planned readings in public administration for the graduate student in the course. Prereq: 4100. course will take the course as Credit/No Credit. Prereq: All coursework for the M.P.A. completed.

Urban Studies

8826 Comparative Urban Studies (3) Comminities: Emphasis will be upon contrasting the cities of the developed and developing world. (Also listed under Geo.)

8100 The Metropolis As A Public Economy (3) The integration of politics and economics in the metropolitan system as they affect metropolitan problems such as poverty, transportation, and political and economic development, and the environment will be analyzed.

8120 Race, Ethnicity, and American Urban Communities (3) This course explores the demographic and social changes which are occurring in urban communities, race and ethnicity, which have a dominant role in shaping the urban and political development.

6830-8840 Interdisciplinary Seminar On The Urban Community (3) An interdisciplinary course on the metropolitan community in which urban problems are put in a broad historical and social context, with an emphasis on the social, political, and economic forces that shape metropolitan society. (Also listed under economics, geography, political science, and sociology.)

\textbf{SOCIAL WORK}

\textbf{PROFESSORS} Andrews, H. Burch, Ozaki, J. Woody

\textbf{ASSOCIATE PROFESSORS} Coyne, Dendlinger, Grandbois, B. Hagen, McGrath, Zelenky

\textbf{COURTESY FACULTY} G. Warwick

The Profession of Social Work

Social work is one of the "helping professions" concerned with the quality of human life. Specifically, the social worker is concerned with people's ability to function meaningfully and effectively in their social and environmental situation. The social worker is involved in problem-solving situations, personal and social change, and in the community at large. Social workers bring to their work the ability to understand personal and social situations, and to develop and implement change on behalf of individuals and groups, in a variety of professional settings. Social workers provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to individuals and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services. Social workers also provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services. Social workers also provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services. Social workers also provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services. Social workers also provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services. Social workers also provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services. Social workers also provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services. Social workers also provide services to individuals, families, and groups, either individually or as part of a team. Social workers provide direct services to clients, including those who are physically or mentally disabled, those who are in need of welfare services, and those who are in need of mental health services.

The School of Social Work is accredited by the Council on Social Work Education (CSWE).

\textbf{Requirements for the Degree of Master of Social Work}

1. A minimum of one year in residence.
2. There are two pathways toward the Master of Social Work Degree. The Advanced Program, for students with a Bachelor's degree in social work from a CSWE accredited program, requires for the candidate a minimum of two 42 credit hours of graduate study in social work. The Two Year Program for students with a Bachelor's degree not completing the requirements in two years may be completed in a minimum of two 42 credit hours of graduate study in social work, or in a non-CSWE accredited program requiring up to 20 graduate hours of graduate study in social work. The Two Year Program requires completion of the two year program in social work, or in a non-CSWE accredited program requiring up to 20 graduate hours of social work foundation courses in addition to the same 42 credit hours as mentioned above. Specific foundation coursework requirements are determined on the basis of each student's previous coursework and/or tested knowledge as determined by written examination.
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 of human behavior and function in social structure. Prereq: Graduate Social Work student or permission of School.

8050 Social Welfare Policy, Services & Analysis (4) An examination of the social policy development and the functioning of specific delivery systems together with beginning policy analysis emphasizing the socio-economic, political, legal, and psychological contexts. Prereq: Graduate Social Work student or permission of School.

8100 Social Work Practice I (Generic) (2) This course is designed to serve as an introduction to the nature of the social workers role and the 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.

8120 Social Work Practice II (Micro) (2) An introduction to the basic concepts of micro social work practice with individuals, families, and small groups. Emphasis is on the assessment of social situations leading to a development of appropriate intervention skills with individuals, small groups, or families. Prereq: SW 8000, SW 8100.

8140 Social Work Practice III (Macro) (2) This is an introductory course for graduate social work students which surveys basic theories and principles of social work practice with groups, institutions, and communities, and includes an understanding of skill development and community organization. Prereq: Concurrent with or subsequent to SW 8000, 8050, and 8120 or SW 8200.

8160 General Social Work Practicum I (3) This course will provide supervised individualized learning experiences in selected social welfare agencies. Prereq: Social Work Program or permission of School. Prereq: SW 8200 or permission of School. Prereq: SW 8200 or permission of School.

8200 Micro Intervention I (3) An advanced course providing in-depth study of the theories and techniques of several major therapeutic modalities used with individuals and consideration of the place of these with families and groups. Prereq: SW 8170 or BSW.

8210 Micro Intervention II (3) To provide the student with knowledge of theories and practice in techniques in various modalities used in working with individuals, families, and small groups. Prereq: SW 8200 or permission of School.

8250 Family Analysis and Treatment (3) The family is considered as a system of social work intervention. Several theories of family intervention are considered; alternative modalities of family treatment are assessed. 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 (TA) and gestalt therapy. Prereq: SW 8200 or permission of School.

8270 Analysis and Treatment of Sexual Problems (3) The course provides an intensive, current review of theory and research in human sexuality. It emphasizes development of understanding and skills necessary for professional counseling for various client groups and counseling for sex-related problems. Prereq: SW 8200 or permission of School.

8280 Social Work Practice in Marriage, Divorce and Remarriage Adjustment (3) This is an advanced practice course designed to prepare students to work with couples and families experiencing marital transition. Topics covered include role dynamics, adjustment, and decision making for clients. Prereq: For social work students. Social Work 2200, or other professional practice course equivalent to SW 8280, to be determined by course instructor.

8290 Clinical Seminar in Mental Health (3) The course utilizes a seminar format to explore theoretical foundations of assessment, diagnosis, and treatment, application of mental health practice skills to the clinical setting, and relationship of the therapeutic process to the setting. SW 8200 or permission of School.

8910 Independent Studies in Marriage and Family Therapy (1-3) This course offers the opportunity for the student to demonstrate their knowledge and skills in selected areas of marriage and family therapy. May be repeated for up to six hours of credit for students in the School of Social Work.

Practicum Courses

8400 Advanced Social Work Practicum I (3) To provide individualized professional experience in micro or macro social work practice. Prereq: SW 8170 or BSW, SW 8200 prior to concurrent with macro placement, or one of the following: SW 8500, SW 8520, SW 8540, SW 8580 prior to concurrent with macro placement of School.

8410 Advanced Social Work Practicum II (3) To provide individualized professional experience in micro or macro social work practice. Prereq: SW 8170 or BSW, SW 8200 prior to concurrent with macro placement, or one of the following: SW 8500, SW 8520, SW 8540, SW 8580 prior to concurrent with macro placement of School.

8420 Advanced Social Work Practicum III (1-4) To provide a third advanced practice opportunity to facilitate agency or practice setting for refinement and development of micro or macro social work practice. Prereq: SW 8410 and permission of School.

Macro Practice Courses

8500 Social Development (3) An analysis of the social development model for effecting social change in the family. Prereq: SW 8140 and SW 8170 or BSW, or permission of School.

8550 Supervision in Social Work (3) To provide the student with knowledge of theories and practice in supervision in social work agencies, social work staff supervision, and social work administration. Prereq: SW 8140 or BSW, or permission of School.

8560 Social Work with Children (3) Major content will include the identification and teaching of supervision of social work agencies, social work and administration. Prereq: SW 8140, SW 8170 or BSW, or permission of School.

Social Work Problem/Condition Courses

4180/8186 Permanence for Children (3) The course is designed for the student to acquire an understanding of the issues involved in providing services to those persons who have been affected by dependency, child abuse and neglect, and who are otherwise in need of care or protection in the welfare system. May be repeated for up to six hours of credit.

4600/8606 Social Work in Mental Health (3) The course is designed for the student to acquire an understanding of the special needs of the mentally ill. May be repeated for up to six hours of credit.

4629/8629 Social Work and Institutional Facet (3) An examination of the roles in social institutions, with particular emphasis on the implications for social work education and the social work practitioner. May be repeated for up to six hours of credit.

4630/8636 Social Work in Health Care (3) An advanced practice experience for students in social work programs. Prereq: SW 8140. The design of the course provides for learning in both micro and macro practice roles in health settings. May be repeated for up to six hours of credit.

4650/8656 Social Work in Health Care (3) A critical review of social work practice in health care programs. Prereq: SW 8140. The design of the course provides for learning in both micro and macro aspects of health care practice.
services covered are: (1) supportive services, (2) supplemental services, and (3) substitute services.

8670 The Human Ecology of Child Abuse and Neglect: An Analysis of Research and Intervention (3) This course will review a recent body of literature on the effects of child abuse and neglect on the child. Students will be introduced to the research and intervention strategies available in our community.

4850/8856 Hospice and Other Services for the Dying (3) This course is designed to introduce students to the principles of hospice care and terminal care. Students will be introduced to the various services and support available in hospice care.

8667 Women's Issues and Sexism: A Social Work Perspective (3) This course will focus on the issues of sexism and gender bias in society and their implications for social work practice. The course will cover topics such as gender roles, gender identity, and the impact of sexism on individuals and society.

8576 Social Work with Minorities: A Multi-Level Approach (3) This course will explore the social work practice with minority populations at the individual, group, and community levels. Students will be introduced to the unique challenges and opportunities presented by working with minority groups.

4850/8856 Social Work with Children and Their Families (3) This course will content include theory, practice, and social work intervention with children and their families in diverse settings. Students will be introduced to various concepts and theories related to working with children and families.

8526 Social Work with Families and Groups (3) This course will focus on the practice of social work with families and groups. Students will be introduced to various models and theories of family therapy and group intervention.

8550/8856 Hospice and Other Services for the Dying (3) This course is designed to introduce students to the principles of hospice care and terminal care. Students will be introduced to the various services and support available in hospice care.

8960 Research Other Than Thesis (B.S. students) This course is designed to prepare students for conducting research in their field of study. Students will be introduced to various research methods and tools used in social work research.

SOCIETY

PROFESSORS: Barger, Lellen, Wheeler

ASSOCIATE PROFESSORS: Hess, Lacy, R. Simpson, Sher

COURTESY FAcTORS:

112 DEGREE REQUIREMENTS

8999 Master's Thesis (6) Under the supervision of the thesis instructor and the thesis committee, complete a thesis research. Prereq: SW 8920 and permission of School.

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COURTESY FAcTORS:
420/4252 Psycholinguistics (3) A discussion of the literature concerned with how psychological variables as perception, learning, memory, and language acquisition interact with the linguistic variables of sentence structure, meaning, and speech sounds. Same as Psychology 4252 and Communication 4526. Prereq: Senior or graduate standing or permission of the instructor. Recommended (Same as Psychology 4526 and Comm. 4520).

4210 Graduate Seminar in Anthropological Problems (3) The seminar will cover a specific topic which will be announced each time the course is offered. The students will work with the instructor on projects designed to increase the student's knowledge in the field in a particular area. Prereq. Permission of the instructor.

Sociology

410/4106 Social Control of Behavior (3) The social processes by which the person's behavior is adapted to the environment. Prereq: Sociology 101 or permission of the instructor.

420/4250 Sociological Theory II (3) The second of two courses in departmental graduate study. Prereq: Permission of the instructor. (Same as Sociology 4000 and 4250.)

4210 Graduate Seminar in Social Psychology (3) A discussion of the literature concerned with how psychological variables as perception, learning, memory, and language acquisition interact with the linguistic variables of sentence structure, meaning, and speech sounds. Same as Psychology 4252 and Communication 4526. Prereq: Senior or graduate standing or permission of the instructor. Recommended (Same as Psychology 4526 and Comm. 4520).

4210/4216 American Family Problems (3) A theoretical treatment of the family as a social institution outlining the essential functions it performs for its members and the society. An analysis of the factors of failure of families to adapt to the social environment in a variety of American families. Parent youth relations. Parent children organizations through group therapy with individual and group projects. Prereq: Sociology 101 or permission of the instructor. (Same as Geography 4110/416.)

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4430 Sociology of Deviant Behavior (3) A theoretical analysis of the nature of deviant behavior, a comparison among two courses of deviant behavior and the theoretical implications of the role and the influence of the family in the development of deviant behavior. Prereq: Sociology 1010.

1101 Applied Social Gerontology (3) An overview of the interdependency between social psychology, and physical elements in the life of a lifetime. Restricted to graduate students only. Required for senior level. Prereq. (Same as Gerontology 1101.)

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4850/4856 Sociology of Religion (3) Analysis of religious behavior from a sociological and social psychological perspective. Emphasis on the theoretical and empirical materials. The class is designed as an introduction to the sociology of religion, and is for a two-step sequence, undergraduate and graduate. Prereq: For 4850, Sociology 1010 or permission of the instructor. For 4856, permission of the instructor.

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concerned with urban problems are put on broad interrelated focus. Preparing Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, political science, and urban studies.)

8310 Seminar in Urban Economics (3-6) An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution. Preparing Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, political science, and urban studies.)

8950-8960 Practicum in Applied Sociology (Each 3) A practical work experience under supervision which provides opportunity for applying principles from the student’s academic area of concentration. Preparing Graduate sociology major for the M.S. Degree.

8990 Thesis (1-6)
Teacher Education

4070/8076 Education for the Uncertain Tomorrows (3) It is the intent of this course to offer educators the opportunity to become aware of the changing realities within the world and the need to prepare learners for the future. The course is designed to prepare prospective teachers to develop an understanding of the human condition, to develop an awareness of the issues and challenges facing society, and to prepare students to assume the role of teacher in a rapidly changing world. Prereq: None

4080/8086 Mental Health for Teachers (3) A study of the principles and paradigms conducive to good mental health in the classroom. Major emphasis is placed on the teacher's role in creating an environment that fosters a sense of self-worth and the development of positive peer relationships. Prereq: None

4210/8210 Creating Wise Free Classrooms (3) This course is designed to develop practicing teachers' awareness of and skill in meeting student needs in the areas of human understanding and acceptance and value. Students will examine existing attitudes toward various minority groups such as racial, ethnic, age, sex, etc. School materials and activities will also be examined in the context of appropriate learning materials for children from three to eight years of age. Prereq: None

4220/8226 Growth and Learning Problems of Disadvantaged (3) An intensive study designed to help students develop an understanding of the learning problems of the disadvantaged. Prereq: Senior standing

4240/8246 Parent Involvement in Early Childhood Education (3) A course for parents or prospective parents interested in learning about the development of young children and their role in the family. Prereq: Senior standing

4260/8268 Direct Instruction in Reading (3) This course is designed to improve instruction in reading. Emphasis is placed on methods of instruction such as the basal approach, the phonics approach, and the whole language approach. Prereq: Admission to Teacher Education, Core 1500, ELED 2252, or Graduate standing

4270/8276 Current Trends in Early Childhood Education (3) The course is designed to provide students with current information about early childhood education and its current status in the local, national, and international levels. Prereq: Admission to Teacher Education, Core 1500, ELED 2252, or Graduate standing

4280/8286 Patterns of Care in Early Childhood Education (3) Exploration of contemporary trends in the field of early childhood education and the current status of the field. Prereq: Admission to Teacher Education, Core 1500, ELED 2252, or Graduate standing

4290/8296 Learning Materials for Early Childhood Education (3) An exploration of the many types of learning materials available for use in early childhood education and the methods of using them. Prereq: Admission to Teacher Education, Core 1500, ELED 2252, or Graduate standing

4300/8306 Administration of the Instructional Materials Center (3) A course designed for students who wish to prepare them for the administration of an educational materials program within an elementary and/or secondary school.
4810/8816 Principles and Philosophy of Vocational Education
4810/8816 Coordination Techniques in Vocational Education
3810 Research Project
8010 Introduction to Research
8040 Seminar in Supervision of Student Teaching
8050 Coordination Techniques in Vocational Education
8110 Field Research Techniques in Urban Education
8120 Urban Cultures and Teaching: The City as Teacher
8130 Field Research Techniques in Urban Education
8140 Urban Cultures and Teaching: The City
8200 Field Research Techniques in Urban Education
8210 Field Research Techniques in Urban Education
8300 Analysis of Teacher Behavior
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8820 Introduction to Vocational Special Needs Students.
8840 Career Exploration & Occupational Readiness for the Special Needs Student.
8850 Using Microcomputers in the Educational Process. This course is designed to enable teachers, administrators, and other school personnel to understand what microcomputers are and how they can be applied to the educational process. Elements of computer terminology, preprogramming, and applications will be considered along with the philosophical aspects of man/machine relationships. The course is not intended for persons with a background in computing or programming. Prereq: Graduate Standing.
8855 Enhancing Instruction with Microcomputers. This course examines the ways in which microcomputers can be used to improve curricular offerings and enhance instructional activities in elementary and secondary schools. Course enrollees will review their own instructional goals and practices and compare these with the capabilities/limitations of microcomputers. Current and projected software and hardware developments will be evaluated in relation to anticipated educational needs. Prereq: Graduate standing.
8860 Developing Microcomputer Instructional Courseware. This course is designed for teachers and other educational personnel who wish to design instructional software for microcomputer. The concepts of task analysis, multimedia, computer graphics, student-computer interaction, evaluation and writing support materials are considered. Various authoring systems will also be examined. Prereq: TED 8540 or equivalent or familiarity with the BASIC language.
8880 LOGO and the K-12 Curriculum. This course is intended for elementary and secondary teachers. It provides an introduction to the LOGO language for microcomputers and its applications to the K-12 curriculum. The history, philosophy, and pedagogical operations of LOGO are considered with particular emphasis placed on implementing LOGO into the various areas of the elementary and secondary school curriculum. Prereq: Graduate Standing. No previous computer knowledge or experience is required.
8900 Principles and Practices in Elementary Reading. This is a beginning graduate course at both elementary and secondary teacher levels. The course is open to any student who has graduate standing. Major emphasis will be given to the applications, evaluation, and methods and materials for the teaching of reading in each of the content subjects at the junior and senior high levels.
9120 Teaching Reading in the Secondary School. An advanced course in reading for elementary or secondary teachers. Major emphasis will be given to the administrative organization, evaluation, and methods and materials for the teaching of reading in each of the content areas at the junior and senior high levels.
9170 Seminar in Organization and Administration of Gifted Programs. Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and who are professional workers who are charged with the total or partial responsibility for organizing and administering reading programs. Familiarity with the philosophy, organization, and major research related to different area and reading authorities will be considered in topics chosen by the students. Prereq: One graduate reading course or permission.
9180 Seminar in Research in Reading. A course for graduate and postgraduate students relating to in-depth studies of significant, recent research in reading with appropriate application for instructional procedures which may be taken. Each student will conduct self-initiated research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent), and permission.
9190 Seminar in Applications of Non-Verbal Communication Theory. This seminar is designed to provide research on the development, facilitation and barriers of human non-verbal interaction with specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication. (Cross listed as Psychology 9360 and Comm. 9520.) Prereq: Course in research methods or permission of instructor.

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.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mut., or TCD) for those pursuing programs in other discipline. The minor portion should be considered in consultation with the advisor. One graduate course in Home Economics with a designated member of the Graduate Faculty in Home Economics is required for the Home Economics minor. Prereq: Admission to the graduate program in the College of Home Economics. (Cross listed as Psychology 9360 and Comm. 9520.) Prereq: Course in research methods or permission of instructor.

Foreign Languages
Graduate Foreign Languages courses are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.
Application for a graduate degree program in Home Economics is to be made to Graduate Studies, Lincoln Campus. In addition, an important step to initiate a graduate program is to consult with the designated official in the appropriate department in Lincoln, Staff in the required program will assist in making such appointments. For a graduate degree in Home Economics, it will be necessary to take Home Economics courses on the Lincoln campus.

Interdepartmental area offers graduate work leading to the Master of Science or Master of Arts degree.

Students applying for study in the Interdepartmental Area must hold a bachelor's degree in Home Economics or equivalent. The undergraduate work must have included the equivalent of 24 hours in Chemistry and 18 hours in Mathematics. The following eight hours are required in at least three subject Matter areas and 30 hours in the Social Sciences including a minimum of 9 hours in the Natural and 6 hours in the Social Sciences.

Work leading to the Master of Science degree in Home Economics may be completed under Option I, II, or III. Undergraduate Study Students interested in Option I or Option II must hold a Bachelor of Science degree from the College of Human Development and the Family, Textiles, Clothing and Design, or have a minimum of 24 credit hours in Chemistry and 18 hours in Mathematics. Undergraduate study students interested in Option III must hold a Bachelor of Science degree from the College of Human Development and the Family, Textiles, Clothing and Design, or have a total of at least 18 hours in Human Nutrition and Food Service Management, 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 undergraduate preparation in the area that is required in the Basic General Education Core in Home Economics plus at least 10 hours of graduate coursework in Biochemistry, in Microbiology, and in Physiology for a total of at least 18 hours in Human Nutrition and Food Service Management, Chemistry, and Biological Sciences.

Human Development and the Family — Candidates for the Master of Science degree in Human Development and the Family must hold a Bachelor of Science or a Bachelor of Arts degree from an accredited college and have completed undergraduate preparation in the area that is required in the Basic General Education Core in Home Economics plus a major of at least 18 hours exclusive of development 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 bachelor's degree from an accredited institution and by completing a minimum of 24 credit hours in Textiles, Clothing and Design or equivalents from an area such as Art or Architecture. The graduate College in Performance may 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. Students as assisted on an individual basis may be enrolled with graduate study.

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.

Art — Studio Art

4000/6000 Special Studies in Art Education (1-3) All special courses in the History and theory of art education designed specifically for elementary and secondary school teachers. These courses are offered on a credit/no credit basis.

8100/8116 Technical Problems—Drawing (3) Advanced, individualized instruction in various graphic media, as determined by the student and instructor. Prereq: Permission.

8316 Advanced Sculpture (3) Advanced work in area of student's choice in clay, sculpting, welding, or woodwork. Prereq: Permission.

Chemistry

All courses cited or prerequisites for enrollment in Chemistry must be completed with a grade of "C" or better.

3350/3355 Physical Chemistry (3) A presentation of selected topics from the area of theoretical chemistry. Prereq: Chem 2200, 2244 or 2274, 2400, 2404, 2450, and 2460.

3354/3359 Physical Chemistry Laboratory (1) Physical chemistry laboratory. Prereq: Chem 2200, 2244 or 2274, 2400, 2404, Physics 2120, Math 1900. Prereq: Permission.

3360/3365 Physical Chemistry (3) A presentation of selected topics from the areas of quantum mechanics, spectroscopy, kinetics, and statistical mechanics. Prereq: Chem 3350, 3354.

3364/3369 Physical Chemistry Laboratory (1) Physical chemistry laboratory. Prereq: Chem 2200, 2244 or 2274, 2400, 2404, Physics 2120, Math 1900. Prereq: Permission.

3400/3410 Instrumental Analysis (2) Laboratory procedures for the determination of the composition of materials. Prereq: Permission.

3404/3409 Instrumental Analysis Laboratory (2) Laboratory procedures for the determination of the composition of materials. Prereq: Permission. Prereq: Permission. Prereq: Permission.

not in semester for maximum of six semester hours total. Per req: Permission of instructor.

4960/8966 Pro-Seminar (1-3) A detailed study of narrower phases of literature, language, or culture. Per req: Permission of the instructor.

Home Economics

Human Nutrition and Food Service Management

4840 Advanced Foods (3) Chemistry of food, an examination of the objective and subjective methods of evaluation of food quality and characteristics. Per req: HNFM 1500, 3-1-4 hours natural science or permission of instructor.

8520 Advanced Nutrition (3) Biochemical and physiological aspects of normal nutrition (offered summer session only). Alternate with HNFM 8520. Per req: Biochemistry or permission of instructor.

8520 Clinical Nutrition (1-5) Normal nutrition considered in relation to the deviations which may occur in those diseases commonly treated by diet. (A) Lecture (1); (B) Research laboratory (1-1) I credit required in some HNFM options; may be taken concurrently with or independently of 4520A/8520A, (C) Diet Writing Laboratory (1) only offered concurrently with 4520A/8520A. Per req: HNFM 4500 or permission of instructor.

4530/8530 Cultural Aspects of Diet (3) Cultural approach to development of dietary patterns of various population groups. Factors involved in food habit alteration. Diffused alternate years only. Per req: Food 2410, 9 hours social science or permission of instructor.

8530 Nutrition Throughout the Life Cycle (3) Influence of normal physiological stress throughout the life span including pregnancy, lactation, growth, and aging on nutritional requirements. Per req: 3 hrs HNFM, 3 hrs HADE, 6 hrs natural science or permission.

8700 Quantity Food and Equipment (3) Observation and practice in institution food departments. Experience in preparation and service of food, use of equipment, menu planning and food cost accounting. Per req: HNFM 1500, 2420, or permission of instructor.

9530 Ecology of Malnutrition (3) Fundamental principles underlying the current world malnutrition problems. Investigation of projected future problems and schemes for their prevention or solution. Per req: FN 8500 and 8530, or permission of instructor.

Philosophy and Religion

Philosophy

3850/8851 The Philosophy of Space Exploration (3) This course deals mainly with the implications of space exploration in the face of conflicting needs. Topics to be studied include objectives in the space program and response to them, spatial benefits, space industrialization, political, and social implications of space utilization.

8165 Current Topics in Science (1-3) The subject matter of this course will generally not be presented in a standard physics course and may be of interdisciplinary nature. The specific topics and prerequisites will be listed in the schedule. Per req: Consent of instructor.

8165 Electricity and Magnetism I (3) An advanced discussion of electricity and magnetism as well as other theories. Per req: Calculus. Physics 2200, or permission.

8165 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 transformation of the fields. Per req: Physics 3750.

3850/8855 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 statistical mechanics, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena is given. Per req: Calculus and Physics 2210 or 2260.

4350/8356 Astrophysics (3) Physics and theory of the physical phenomena, distribution, and space motion of stars and star systems: internal structure, evolution, and death of stars structure of similar astrophysical systems, interstellar matter and gaseous nebulae and the origin of the universe. Per req: Physics 2210 or 2260 and Calculus I and II (Physics 1350 is helpful).

4950-4960/8956-8966 Problems in Physics (Each 1-3) Individual laboratory and/or library work in some field of energy. Per req: General physics and permission of instructor. For 4960: 4950 and permission of instructor.
JOHN C. KASHER (GF) Physics Ph.D., Boston College, 1970; Professor
KATHERINE KASTEN (GF) Educational Administration and Supervision Ph.D., University of Wisconsin-Madison, 1982; Assistant Professor
MICHAEL KATZ (GF) Teacher Education Ph.D., Stanford University, 1974; Associate Professor
GARY B. KEEPER Civil Engineering Ph.D., University of West Virginia, 1979; Assistant Professor
DARRELL F. KELLEMS Educational Administration and Supervision Ed.D., Stanford University, 1984, Professor
ERNEST J. KENNIST JR. Chemical Ph.D., University of Nebraska-Lincoln, 1971; Associate Professor
THOMAS R. KIDD Health, Physical Education and Recreation Ed.D., University of Oregon, 1970, Professor
KENT KIRWIN (GF) Political Science Ph.D., University of Chicago, 1970; Professor
BERNARD D. KOLASA Political Science Ph.D., University of Nebraska-Lincoln, 1969, Associate Professor
PATRICIA KOLASA Teacher Education Ph.D., University of Kansas, 1973, Associate Professor
JOHN KONVALINA (GF) Mathematics and Computer Science Ph.D., State University of New York at Buffalo, 1975, Professor
KURT KRAETSCHMER Foreign Languages and Literatures Ph.D., SUNY Binghamton, 1973, Associate Professor
MARTHA (MISSY) DEHN KUBICKI (GF) English Ph.D., University of Illinois, 1970; Associate Professor
MICHAEL G. LACY Sociology and Anthropology Ph.D., University of Karachi, 1963, Assistant Professor
JULIEN LAFONT (GF) Foreign Languages and Literatures Ph.D., State University of New York at Binghamton, 1973, Professor
MARTY ANDERSON Sociology and Anthropology Ph.D., University of Notre Dame, 1977, Associate Professor
RICHARD L. LANE (GF) English Ph.D., University of Arkansas, 1968, Professor
JOHN T. LANGAN Teacher Education Ed.D., University of Nebraska-Lincoln, 1973, Associate Professor
RICHARD W. LANKIN Health, Physical Education and Recreation Ph.D., The University of Utah, 1982; Assistant Professor
JOSEPH C. LAVOIE (GF) Psychology Ph.D., University of Wisconsin-Madison, 1970, Professor
BUN SONG LEE (GF) Economics Ph.D., Southern Methodist University, 1973, Professor
WILLIAM B. LEMAR Civil Engineering Ph.D., University of Nebraska-Lincoln, 1979, Associate Professor
PETER M. LIMA (GF) Civil Engineering Ph.D., Louisiana State University, 1979, Associate Professor
W. BOYD LITTEL (GF) Sociology and Anthropology Ph.D., New York University, 1975; Professor
THOMAS C. LORSBACH (GF) Counseling Psychology Ed.D., University of Missouri-Columbia, 1979, Associate Professor
DAVID G. LOUT (GF) Music D.M., Northwestern University, 1973, Professor
NORMAN J. LUNA Foreign Languages and Literatures Ph.D., University of Colorado-Boulder, 1969; Professor
ERIKA M. MALONEY Mathematics and Computer Science Ph.D., Georgetown University, 1965, Professor
ERIC R. MANLEY Chemistry Ph.D., University of New Mexico, 1976, Assistant Professor
NEKE HAEN MARSHALL Criminal Justice Ph.D., Bowling Green State University, 1977, Professor
HARRIET McCLEARY Music M.M., Western Illinois University, 1976, Assistant Professor
ROBERT L. MATHIS (GF) Management D.B.A., University of Colorado-Boulder, 1972, Professor
CARLIE E. MELNICK (GF) Air M.F.A., University of Illinois, 1963, Professor
JOHN P. MALONEY Mathematics and Computer Science Ph.D., Georgetown University, 1965, Professor
INKE HAEN MARSHALL Criminal Justice Ph.D., Bowling Green State University, 1977, Professor
BARBARA MCLaat Marketing Ph.D., Iowa State University, 1977, Associate Professor
MICHAEL T. MAGRATH Social Work Ed.D., University of Kentucky, 1964; Associate Professor
JOHN J. MCKENNA English Ph.D., Ohio University, 1970, Associate Professor
OLIVIA MEI Ph.D., Physics Ph.D., State University of New York at Buffalo, 1979, Assistant Professor
OLIVIA D. MENARD (GF) Political Science Ph.D., University of Nebraska-Lincoln, 1964; Professor
KENNETH G. MERKEL Industrial Systems Technology Ph.D., Fielding Institute, 1984; Professor
JOSEPHINE METAL-CORBEN Health, Physical Education and Recreation M.Ed., University of Pennsylvania, 1969; Assistant Professor
ARLEEN MICHAEL (GF) Psychology and Special Education Ed.D., University of Nebraska-Lincoln, 1979, Assistant Professor
C. RAYMOND MILLIMET (GF) Psychology Ph.D., Ohio University, 1972; Professor
LEO E. MINNISSE (GF) Geology Ph.D., Louisiana State University, 1979, Associate Professor
SUZANNE ELAINE MOHNER Biophysics Ph.D., University of Chicago, 1972, Assistant Professor
R. CLARK MCELHINNY M.S., United States Military Academy, 1939; Associate Professor
GORDON MUNDELL English Ph.D., The University of Rochester, 1973, Associate Professor
GONZALO MUNOZ-VAHAR (GF) Philosophy and Religion Ph.D., University of California-Berkeley, 1975, Professor
SUFI M. NAZEM (GF) Decisive Sciences Ph.D., Manchester University, 1976, Professor
GLEN A. NEWBERRY English Ph.D., University of Michigan, 1969, Professor
JOHN M. NEWTON (GF) Psychology Ph.D., Ohio State University, 1985, Professor
DONALD A. NIELSEN Economics Ph.D., Syracuse University, 1976, Professor
CARLIE E. NORDAHL Biophysics Ph.D., University of Iowa, 1969; Assistant Professor
DONALD F. NORMAN Public Administration Ph.D., University of Virginia, 1971; Associate Professor
TOM NORWOOD Teacher Education Ph.D., University of Nebraska-Lincoln, 1975, Associate Professor
W. O'NEAL (GF) Biology Ph.D., Bowling Green State University, 1971, Professor
MICHAEL J. O'HARA Law and Society Ph.D., University of Nebraska-Lincoln, 1983, J.D., University of Nebraska-Lincoln, 1978, Assistant Professor
ROBERT C. O'REILLY (GF) Educational Administration and Supervision Ed.D., University of Kentucky, 1962, Professor
B. GALE OLSEY Counseling and Special Education Ph.D., University of Wyoming, 1955, Professor
RICHARD F. ORTMAN Accounting Ph.D., University of Wisconsin-Madison, 1971, Professor
ROBERT L. OTTENHEIM (GF) Management Ph.D., University of Nebraska-Lincoln, 1974, Associate Professor
RICHARD A. OVERFIELD History Ph.D., University of Maryland, 1968; Professor
RICHARD H. OZAR Social Work D.S.W., Washington University, 1965; Professor
RUSSELL W. PALMER Philosophy and Religion Ph.D., University of Iowa, 1966; Professor
KAYE PARNELL Teacher Education Ph.D., University of Wisconsin-Madison, 1973, Associate Professor
DOUGLAS L. PATTERSON Dramatic Arts Ph.D., Cornell University, 1972, Professor
JEFFREY S. PEAKE Geography Ph.D., Louisiana State University, 1977, Associate Professor
DUILO T. PEDRINI (GF) Psychology Ph.D., University of Texas-Austin, 1986, Professor
KEMI C. PETERS Music D.M.A., University of Arizona, 1976, Professor
MARVIN PETRUS English Ph.D., University of Nebraska-Lincoln, 1973, Assistant Professor
MICHAEL PETRUZZI Geography Ph.D., SUNY-Buffalo, 1982; Assistant Professor
TOM J. PETRUS (GF) Educational Administration and Supervision Ph.D., The Ohio State University, 1969, Professor
WILLIAM R. PETROWSKI (GF) History Ph.D., University of Wisconsin-Madison, 1966, Professor
JOHN KONVALINA (GF) Teaching and Special Education Ed.D., University of Nebraska-Lincoln, 1971, Professor
LORIS POL Marketing Ph.D., Florida State University, 1978, Associate Professor
OLIVER B. POLLAK (GF) History Ph.D., University of California-Los Angeles, 1973, Professor
JANET B. PORTER Criminal Justice Ph.D., University of Oklahoma, 1966; J.D., University of Missouri at Kansas City, 1971; Associate Professor
KAREN A. POUTON Counseling and Special Education Ph.D., University of Texas, 1981, Assistant Professor
WILLIAM C. PRATT (GF) History Ph.D., Emory University, 1969, Professor
LEONARD W. PRESTWICH Marketing Ph.D., Ohio State University, 1967, Professor
WARREN F. PRINCE Music D.M.A., Stanford University, 1968, Professor
MARSHALL PRISCELL Communication Ph.D., University of Nebraska-Lincoln, 1981, Assistant Professor
DOUGLAS L. PATERSON Criminal Justice Ph.D., University of Nebraska-Lincoln, 1976, Professor
BURLINGTON REED (GF) Public Administration Ph.D., University of Missouri at Columbia, 1972, Associate Professor
ROBERT T. REILLY (GF) Communication Arts, Boston University, 1968, Professor
HARRY W. REYNOLDS JR. (GF) Public Administration Ph.D., University of Pennsylvania, 1984, Professor
WILLIS F. ROKES (GF) Law and Society Ph.D., Ohio State University, 1959; J.D., University of Cincinnati, 1951; Professor
MARTIN ROSENBERG Art Ed., University of Pennsylvania, 1979, Assistant Professor
ROGGER R. SANDT Economics Ph.D., Texas A & M College Station, 1972, Assistant Professor
ROGER P. SIMPSON Psychology Ph.D., Ohio State University, 1972, Assistant Professor
MICHAEL SKAU (GF) (Joint Appointment with College of Education) Psychology Ph.D., University of Illinois-Champaign-Urbana, 1973, Professor
ANDRIS SKRELA Sociology and Anthropology Ph.D., University of Michigan-Ann Arbor, 1977, Assistant Professor
RICHARD E. SMITH Teacher Education Ed.D., Loyola University, 1975, Assistant Professor
PHILIP J. CHARLES SMITH English Ph.D., University of Nebraska-Lincoln, 1972, Assistant Professor
H. RIM SOSH Economics Ph.D., University of Nebraska-Lincoln, 1970, Associate Professor

JOANNE E. SOWELL Art Ph.D., Florida State University, 1968, Assistant Professor
PAMELA SPENCER Management Ph.D., University of Nebraska-Lincoln, 1981, Associate Professor
CASSIA SPOHN (GF) Goodrich Program University of Nebraska-Lincoln, 1970, Associate Professor
SANDRA SQUIRES Counseling and Special Education Ph.D., University of Northern Colorado, 1972, Associate Professor
JACQUELINE ST. JOHN History Ph.D., University of Nebraska-Lincoln, 1970, Associate Professor
RICHARD STASIAK (GF) Biology Ph.D., University of Minnesota-Minneapolis, 1972, Associate Professor
LARRY J. STEPHENS Mathematics and Computer Science Ph.D., Oklahoma State University, 1972, Professor
JUSTIN D. STOLEN (GF) Decision Sciences Ph.D., University of Illinois-Urbana, 1970, Professor
DALE A. STOVER Philosophy and Religion Ph.D., McGill University, 1967, Professor
DANIEL M. SULLIVAN Chemistry Ph.D., University of Nebraska-Lincoln, 1970, Associate Professor
DAVID M. SUTHERLAND (GF) Public Administration Ph.D., Leiden University, 1959, Professor
JOHN W. SWAIN Public Administration Ph.D., Northern Illinois University, 1981, Associate Professor
MAHER K. TAGHERCIS (GF) Civil Engineering Ph.D., University of California-Davis, 1973, Professor
MICHAEL L. TATE (GF) History Ph.D., University of Toledo, 1974, Professor
RICHARD S. THILL (GF) Foreign Languages and Literature Ph.D., University of California-Los Angeles, 1973, Professor
JAMES M. THOMAS Psychology Ph.D., Iowa State University, 1972, Associate Professor
TOMMY R. THOMPSON (GF) Psychology Ph.D., University of Maryland, 1972, Professor
JAMES A. THORSON (GF) Gerontology Ph.D., University of Minnesota, 1975, Professor
YVONNE TIXIER-VIGIL Teacher Education Ph.D., University of California-Davis, 1973, Professor
PAUL TODD Music M.M., University of Texas, 1956, Associate Professor
R. WILLIS TRUSSELL (GF) Chemistry Ph.D., University of Nebraska-Lincoln, 1969, Professor

CHRISTOPHER Y. TIAN Civil Engineering Ph.D., University of Wisconsin-Madison, 1987, Assistant Professor
KEITH K. TURNER Economics Ph.D., University of Nebraska-Lincoln, 1970, Associate Professor
ANGELA MARIA VALLE Foreign Languages and Literature Ph.D., Benjamin Franklin University, 1970, Associate Professor
IVAN J. VANEVERY Teacher Education University of Nebraska-Lincoln, 1970, Associate Professor
PHILIP E. VOGEL Geography Ph.D., University of Nebraska-Lincoln, 1970, Professor
WILLIAM O. WAREFIELD Criminal Justice Ph.D., University of Nebraska-Lincoln, 1972, Associate Professor
SUSAN WALKER (GF) Criminal Justice Ph.D., University of Nebraska-Lincoln, 1972, Professor
JOHN W. WOENZIEN Criminal Justice Ph.D., University of Nebraska-Lincoln, 1972, Professor
BLAINE E. WOOD Administrative Education University of Nebraska-Lincoln, 1972, Associate Professor
WILTON WEBB Criminal Justice Ph.D., University of Nebraska-Lincoln, 1970, Associate Professor
A. THOMAS WEBER Biological Science Ph.D., University of Nebraska-Lincoln, 1979, Associate Professor
DEL WELD Educator Administrator and Supervisor Ph.D., University of Wisconsin-Madison, 1970, Associate Professor
CORELLIA ROBINSON Psychology Counseling and Special Education Ph.D., University of Kansas, 1979, Assistant Professor
WAYNE WHEELER (GF) Sociology and Anthropology Ph.D., University of Maryland-Baltimore, 1972, Professor
RICHARD L. WIKEFF (GF) Psychology Ph.D., Oklahoma State University, 1969, Professor

JOSEPH S. WOOD Geography Ph.D., The Pennsylvania State University, 1970, Associate Professor
JANE D. WOOD Social Work Ed.D., Michigan State University, 1970, Associate Professor
ROBERT H. WOOD (GF) Psychology Ph.D., Michigan State University, 1973, Assistant Professor
FRANK ZAHN (GF) Economics Ph.D., University of California-Santa Barbara, 1967, Assistant Professor
LUCILLE ZELINSKY Social Work M.S.W., Wayne State University, 1947, Associate Professor
RAYMOND A. ZIEBARTH Teacher Education Ph.D., University of Minnesota-Minneapolis, 1963, Professor

G - Graduate Fellow

GRADUATE FACULTY MEMBERS

(Join Appointment with College of Medicine)
CAROL R. ANGLE Psychology M.D., Cornell University Medical College, 1963, Professor
ALAN J. FIX Psychology Ph.D., SUNY at Buffalo, 1969, Associate Professor
GARY GARD Psychology Ph.D., University of Nebraska, 1962, Assistant Professor
J. MICHAEL LEBOVICH (GF) Psychology Ph.D., University of Nebraska, 1974, Associate Professor
LYNDA MADISON Psychology Ph.D., Emory University, 1961, Assistant Professor
MARK MCKINNEY Psychology Ph.D., University of Texas-Arlington, 1980, Assistant Professor
FRED STRIDER (GF) Psychology Ph.D., University of Nebraska, 1969, Professor
G. RODRIGUEZ-SIERRA Ph.D., University of Cincinnati, 1970, Assistant Professor
J. RODRIGUEZ-SIERRA Psychology Ph.D., University of Nebraska, 1978, Assistant Professor

GRADUATE FACULTY (Boys Town)

DANIEL DALY Psychology Ph.D., University of Nebraska, 1975, Assistant Professor

GRADUATE FACULTY (Union Pacific Railroad)
Academic Affairs

The Colleges and Library
University of Nebraska at Omaha

Graduate Studies
Margaret Gensaman, Dean

Arts and Sciences
Sharon Davis, Director, Grants Development

Business Administration
Frank S. Forbes, Chairperson, Law and Society

Continuing Studies
Alan S. Hackel, Dean

Larry M. Alberson, Chairperson, Teacher Education

Continuing Studies
George Boddy, Director, Division of Conferences and Community Programs

Finance
Richard B. Flynn, Dean

Larry M. Alberson, Chairperson, Teacher Education

Curt Ashbaugh, Associate Dean

Michael Sievert, Director, School of Health, Physical Education and Recreation

David L. Shulker, Dean

Thomas Majeski, Chairperson, Art

Roger Fritz, Chairperson, Music

Public Affairs and Community Service
David W. Hanlon, Dean

Sunny Anderson, Director, Social Work

Donald Dowding, Chairperson, Goodrich Program

James A. Thorson, Director, Gerontology

University Library
Robert S. Buron, Director

Elba Jane Bolduc, Chairperson, Technical Services

John A. Reddelbach, Chairperson, Library Collections Department

University of Nebraska-Lincoln

Engineering and Technology
Kenneth G. Martin, Chairperson, Industrial Systems Technology

Charles Sellack, Chairperson, Electronics Engineering Technology

Home Economics
Karen Craig, Dean

BUSINESS AND FINANCE
Gary L. Carrocco, Vice Chancellor

Julie Trotten, Assistant Vice Chancellor for Business and Finance, and Director of Finance

Robert C. O'Reilly, Chairperson, Educational Administration and Supervision

Sandra R. Squires, Chairperson, Counseling and Special Education

Fine Arts
Arthur Homer, Chairperson, Writers Workshop

Douglas Paterson, Chairperson, Dramatic Arts