Graduate Academic Catalog (1985-86)

University of Nebraska at Omaha

Follow this and additional works at: https://digitalcommons.unomaha.edu/gradcatalogs

Part of the Higher Education Administration Commons

Please take our feedback survey at: https://unomaha.az1.qualtrics.com/jfe/form/SV_8cchtFmpDyGfBLE

Recommended Citation
University of Nebraska at Omaha, "Graduate Academic Catalog (1985-86)" (1985). Graduate Catalogs. 27.
https://digitalcommons.unomaha.edu/gradcatalogs/27

This Report is brought to you for free and open access by the UNO Academic Catalogs at DigitalCommons@UNO. It has been accepted for inclusion in Graduate Catalogs by an authorized administrator of DigitalCommons@UNO. For more information, please contact unodigitalcommons@unomaha.edu.
University of Nebraska at Omaha
Graduate Catalog
1985-86

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).

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

### BASIC INFORMATION AND SUMMARIES
- Graduate Degrees Offered ........................................... 5
- Disciplines Admitting Graduate Students ..................... 6
- Summaries of Policies and Procedures in Graduate Studies ... 9
- Summaries of Admission Procedures ............................. 9
- Summary of Admissions Procedures .............................. 9
- Guidelines for Constructing a Plan of Study ................... 10

### GENERAL INFORMATION: UNIVERSITY OF NEBRASKA AT OMAHA
- Graduate Studies at UNO: History and Purpose ........... 15
- Accredited Standing ............................................... 15
- University Library ............................................... 15
- University Administration ...................................... 15
- Funding for Graduate Student Research .................... 16
- University Scholarships ........................................ 16
- Credit/No Credit Option for Courses Offered for Graduate Credit 16
- Change of Graduate Degree Program .......................... 16
- Residency Requirements for Graduate Degrees ............ 16

### DEGREE/CERTIFICATE REQUIREMENTS AND COURSE DESCRIPTIONS
- Biology ............................................................. 37
- Business .......................................................... 40
- Civil Engineering .................................................. 43
- Communication .................................................... 46
- Counseling and Special Education .............................. 49
- Criminal Justice .................................................. 52
- Dramatic Arts .................................................... 55
- Economics ........................................................ 58
- Educational Administration .................................... 61
- Educational Administration and Supervision ............ 64
- Educational Administration and Supervision ............ 67
- Educational Administration and Supervision ............ 70
- Educational Administration and Supervision ............ 73
- Educational Administration and Supervision ............ 76
- Educational Administration and Supervision ............ 79
- Educational Administration and Supervision ............ 82
- Educational Administration and Supervision ............ 85
- Educational Administration and Supervision ............ 88
- Educational Administration and Supervision ............ 91
- Educational Administration and Supervision ............ 94

### NON-DEGREE AREAS AND COURSE DESCRIPTIONS
- Art ................................................................. 122
- Black Studies ..................................................... 125
- Chemistry ........................................................ 128
- Engineering Mechanics ........................................ 131
- Foreign Languages ............................................... 134
- Home Economics ................................................. 137
- Philosophy and Religion ....................................... 139
- Physics .......................................................... 142

### UNIVERSITY ADMINISTRATION
- UNO Graduate Faculty ......................................... 152
- UNO Graduate Faculty ......................................... 155

### INDEX
- A-D ................................................................. 182
- E-O ................................................................. 185
- P-T ................................................................. 196
- U-Z ................................................................. 206
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 twenty-four hours of non-thesis coursework) as determined by the cognizant Graduate Program Committee.

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

Master of Arts for Teachers of Mathematics (MAT)

This is a specialized graduate degree designed to provide secondary school mathematics teachers with more depth in mathematics combined with a core of relevant professional courses in education.

Master of Business Administration (MBA)

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

Master of Music (MM)

This is a professional graduate degree designed to provide further professional development for the performer or additional study for the music educator.

Master of Professional Accounting

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

Master of Public Administration

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

Master of Social Work (MSW)

This is a professional graduate degree designed to provide knowledge, values and skills enabling the practitioner to intervene in behalf of individuals, families, groups and societal systems.

Specialist in Education (EdS)

The Specialist in Education degree is an advanced graduate degree, involving a minimum of one year of study beyond the Master's degree. It is designed to offer additional study for professional educators.
**DIRECTORY OF GRADUATE PROGRAMS**

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

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

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

- **Art—Minor**
- **Back Studies**
- **Chemistry—Minor**
- **Economics—Minor**
- **Engineering Mechanics—Minor*”**
- **Foreign Languages**
  - **French—Minor**
  - **German—Minor**
  - **Spanish—Minor**
- **Geology—Minor, Graduate Certificate**
- **Home Economics—Minor*”**
- **Philosophy and Religion**
  - **Physics—Minor**

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

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

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

**SUMMARIES OF POLICIES AND PROCEDURES IN GRADUATE STUDIES**

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

**UNIVERSITY REGULATIONS**

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

The University and its various colleges, divisions and departments reserve the right to revise or change rules, charges, fees, schedules, courses, requirements for degrees and other regulations affecting students including, but not limited to, evaluation standards, whenever considered necessary or desirable. The University also reserves the right to cancel any course for insufficient registration, to change any programs, to require any examinations and to change tuition rates at any time. Registration by a student signifies an agreement to comply with all regulations of the University.

Every reasonable effort will be made to enable students who maintain continuous enrollment in pursuing their degrees to follow the policies and requirements in effect at the time of their original admission. (To maintain continuous enrollment a student must do one of the following: (1) enroll in both semesters of 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 candidacy for the degree shall follow the regulations in the most recent Graduate Catalog. Students who have maintained continuous enrollment and who have been admitted to candidacy for the degree shall follow the regulations in the Graduate Catalog in effect at the time at which they were admitted to candidacy. All students are responsible for being aware of all changes in regulations which affect their graduate work.)
SUMMARY OF ADMISSION PROCEDURES

1. In order to receive graduate credit for courses taken at the University, a student must have been admitted to graduate studies at UNO. Exceptions can be made for students admitted to graduate studies at another campus of the University of Nebraska or for special cases of graduate work; inquiries should be made in the Office of Graduate Studies.

2. In addition to the points listed below, 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; University of Nebraska at Omaha, 163 Eppley Administration Building, Omaha, Nebraska 68182.
   - Submit the completed application form with all required fees and documentation to the Office of Admissions, being careful to observe all deadlines.
   - Always have a final transcript sent to the Office of Admissions; University of Nebraska at Omaha, 163 Eppley Administration Building, Omaha, Nebraska 68182.

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

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

6. All applicants admitted to UNO will receive 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. This notification of admission to candidacy for the degree will be mailed to students by the Office of Graduate Studies. If such notification is not received within a reasonable time, the students should call the Office of Graduate Studies.

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

4. Students should contact the Office of Graduate Studies at least once a semester to ensure 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 of the beginning of the semester in which they plan to take these examinations.

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

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

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

ACADEMIC CALENDAR

First Semester, 1985-86

Last day for submitting credentials for admission to Graduate Studies: Fall Semester 1985-86.

Registration (Fall Semester).

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

Change of class schedule: August 21, 22, 23.

Last day for filing applications for degrees to be conferred January 1986.

Vaccination: no classes. University closed.

Last day for filing applications for degrees to be conferred December 1985.

Thanksgiving: no classes. University closed.

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

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

All applicants admitted to UNO will receive 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. This notification of admission to candidacy for the degree will be mailed to students by the Office of Graduate Studies. If such notification is not received within a reasonable time, the students should call the Office of Graduate Studies.

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

4. Students should contact the Office of Graduate Studies at least once a semester to ensure 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 of the beginning of the semester in which they plan to take these examinations.

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

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

8. Students wishing to participate in the Commencement ceremony must order a cap, gown, and hood from the Bookstore.
ADMINISTRATION
UNIVERSITY OF NEBRASKA
AT OMAHA

THE BOARD OF REGENTS

Robert Keefoot, M.D.
President
(Chairman)

Gerald J. Keating

James H. Moglan

Nancy Hoch

Ronald W. Roskens, Ph.D.
The University of Nebraska

Donald A. Myers, Ph.D.
Dean College of Fine Arts and Community Service

Hazel M. Anthony, Ed.D.
Dean College of Home Economics

David L. Shroder, D.M.A.
Dean College of Fine Arts

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

Robert S. Rumon, M.I.L.
Director, Library

John E. Kerrigan, Ph.D.
College of Public Affairs

College of Engineering and Technology

Donald A. Myers, Ph.D.
Dean College of Education

Larry B. Trussell, Ph.D.
Dean College of Business Administration

Allen S. Hackel, Ph.D.
Dean College of Continuing Studies

ADMINISTRATION
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, general information material and copies of all required forms can be found there. The office of the Dean of the Graduate College, University of Nebraska, is located in Room 227 of Regents Hall, Lincoln.

ORGANIZATION OF GRADUATE STUDIES

University of Nebraska

In 1971, at the direction of the Board of Regents, the Graduate College of the University of Nebraska (UNL and UNMC) and the Graduate College of the University of Nebraska at Omaha were merged to form the University-wide Graduate College. The ultimate academic authority for all graduate programs within the University is vested in the approximately 1500 Members of the Graduate Faculty. The Bylaws of the Board of Regents state that the Executive Vice President and Provost of the University of Nebraska shall serve as Dean of the University-wide Graduate College and as 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 the Executive Graduate Council can be found in the "University of Nebraska Graduate College Governance Documents".

University of Nebraska at Omaha

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

GRADUATE FACULTY

Graduate Faculty Members

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

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

1. The nominee must hold the rank of Assistant Professor or above.
2. The nominee must hold the terminal degree normally accepted for academic employment in the discipline or its clear equivalent as determined by the Graduate Program Committee of the nominee's department or interdisciplinary area.
3. The nominee must be a part-time or full-time faculty member with a contract to make at least one-third of his or her regular efforts in graduate teaching and research.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential beyond teaching. This evidence must be provided by the nominator.

Graduate Faculty Fellows

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

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

1. The nominee must be a Graduate Faculty Member or meet all criteria for Graduate Faculty Membership.
GRADUATE PROGRAM COMMITTEES

Each graduate department authorized to offer major work leading to the Master's or doctoral degree shall have established for it a Graduate Program Committee consisting of not less than the number of Graduate Faculty Members, one of whom is designated as chairperson. In the case of a graduate department offering a doctoral degree, the majority of the Committee and its chairperson shall be Graduate Faculty Members. Membership of the Graduate Program Committee is recommended by the departmental chairperson or other appropriate administrator for appointment by the Dean of the Graduate School, who has delegated that responsibility to the UNO Dean for Graduate Studies and Research.

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

GRADUATE STUDENT ADVISERS

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

SUPERVISORY COMMITTEES

Some graduate programs require the establishment of a supervisory committee for each student. In particular, each student under Option I (page 51) must have a supervisory committee. Each committee is appointed by the Dean for Graduate Studies and Research based upon recommendation of the Graduate Program Committee. The committee shall consist of at least two voting Graduate Faculty Members from the student's graduate department and at least one voting Graduate Faculty Member from another department. In addition, other qualified persons may be appointed by the chairperson of the committee at its discretion. The committee shall be considered the student's thesis advisor.
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 (first as the University of Omaha, then as the Municipal University of Omaha and the University of Nebraska at Omaha) has provided Omaha, the state of Nebraska and the nation with men and women of sound intellectual training and preparation for life. Its goal for its students, "To earn a living and live a cultured life not as two processes, but as one", has been its guide over the years.

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

In 1968 the Municipal University of Omaha was merged with the University of Nebraska 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 UN-L 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 persons because of their age, sex, race, color, national origin or religious or political beliefs."

The University of Nebraska at Omaha declares and renews a policy of administering all of its educational programs and related supporting services and benefits in a manner which does not discriminate because of a student's or prospective student's race, color, creed or religion, sex, national origin, age, handicap or other characteristic which cannot be lawfully the basis for provision of such services. These programs, services and benefits include, but are not limited to, admission, class assignments, scholarships and other financial and employment assistance, counseling, physical education and recreational services, and the membership of student organizations.
Further, UNO commits itself in a program of affirmative action to encourage the application of minority women and handicapped students, to identify and eliminate the effects of any past discrimination in the provision of educational and related services and equal access to the facilities and educational opportunities of the institution for all students.

Pursuant to this policy statement, UNO will undertake a continuing program of compliance with all those addressing the obligations of the institution under Title VI of the Civil Rights Act of 1964 as amended, Title IX of the Education Amendments of 1972 and Sections 504 and 508 of the Rehabilitation Act of 1973.

Discrimination and Sexual Harassment

The University of Nebraska at Omaha reaffirms its desire to create an environment for all students and employees that is fair and responsible - an environment which is based on one's ability and discrimination because of race, color, religion or national origin, or sex. The University of Nebraska at Omaha prohibits all forms of sexual harassment. Appropriate corrective action will be taken in those instances where this policy has been violated. This policy is in keeping with federal equal opportunity guidelines. Any University student or employee will be subject to disciplinary action for violation of this policy.

For any questions concerning this policy, students should contact the Vice Chancellor for Student Development Services, faculty should contact the Vice Chancellor for Academic Affairs and staff should contact the Vice Chancellor for Administrative Affairs.

Privacy of Student Records/Information

In compliance with the Family Education Rights and Privacy Act of 1974, the University of Nebraska at Omaha guarantees students access to official records directly related to their student status to themselves or their legal representatives. The institution must obtain written consent of students to release information other than that which the institution is obliged to release by law. All such requests must be honored promptly.

A copy of this Act and its application at UNO is available to all students, copies of which may be obtained at the Office of the Registrar, the Office of the University Computing Services, the Office of the President, the Office of the Vice President for Academic Affairs, and the Office of the Vice President for University Administration.

Class Attendance

Classes are conducted on the premise that regular attendance is desirable and expected. The instructor of each course may establish, in cooperation with the registrar, absence policies which prevail in that classroom. Instructors shall inform each student how many days of absence constitute sufficient cause for failure to pass the course. It is the student's responsibility to notify the instructor of any circumstances which prevent attendance at class meetings. Students who become ill during the course of a class must notify the instructor of the nature of their illness or injury and indicate the days on which they are absent. Class attendance will be kept for each class, and students who miss more than a specified number of days will be subject to the same penalties as those who are absent from class. Students who miss more than a specified number of days without an acceptable excuse will be subject to being asked to withdraw from the course. Students who are absent without an acceptable excuse will be subject to being asked to withdraw from the course.

ACADEMIC SERVICES

University Library

The University Library is a three level building dedicated to a wide variety of academic and student needs. In fact, the UNO Campus offers a wide range of services for UNO students and faculty. University Library provides students and faculty with access to a wide range of academic and student services.

Plagiarism

The prevention of plagiarism is an important component of the UNO Academic Honesty Policy. This policy is intended to prevent students from engaging in academic dishonesty by using the ideas and writings of others without properly acknowledging them. The policy is designed to help students understand the importance of academic integrity and to promote a culture of honesty and integrity within the university.

Plagiarism by Faculty

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

Plagiarism by Students

The investigation of allegations of plagiarism by a student or appeals therefrom, at any major administrative unit of the University of Nebraska shall be handled in accord with the procedures established by the Academic Freedom and Tenure Committee of the campus.
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 waiving themselves of the delayed billing option must familiarize themselves with the University's policies, as published. 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 contact the Office of Financial Aid and the Eppler Administration Building. Application for financial aid should be made at the earliest possible time.

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

With the exception of the Bookstore, the University does not accept bank cards for payment of any financial obligation. Registration is not complete until cleared by the Cashier. Failure to pay tuition or fees when due, or to meet payments on loans when due, may result in cancellation of registration, legal collection efforts, and withholding of grades and transcripts. Students who fail to meet their 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): $10.00

Tuition:
- Per Semester Credit Hour
  - Undergraduate: $41.75
  - Graduate: $41.75
- Per Resident Credit Hour
  - Undergraduate: $11.25
  - Graduate: $11.25

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

Laboratory Fees:
- Students enrolled for laboratory courses are advised that laboratory fees are charged for laboratory courses in the following:
  - Art 201, 202, 203, 430: Laboratory Fee: $30.00
  - Art 251, 336: Laboratory Fee: $30.00
  - Ceramic Laboratory: $30.00
  - Communication 311: Photography Laboratory Fee: $10.00
  - Electronics Laboratory 101: $5.00
  - English Department Reading Laboratory Fee: $5.00
  - Geography 103, 106, 107: Field Trip Fee: $3.00
  - Geography 103 Field Trip: $3.00
  - Geography 117, 118, 275L, 276L, 310L, 345, 431 Laboratory Fee: $3.00
  - Laboratory 117, 118, 275L, 276L, 310L, 345, 431 Laboratory Fee: $3.00
  - Instructional Technology Core 280: $10.00
  - Music Instrument Usage: Rental Fee: $5.00
  - Physics 103, 105, 113, 176, 302, 305, 354, 356 Laboratory Fee: $5.00
  - Preparation of Instruction Material LS 480/487M: $5.00
  - Printing 311, 451, 453, 454 Laboratory Fee: $5.00
  - Psychology 102: $15.00
  - Psychology 302: $20.00
  - Special Education 451, 452, Basic Practicum: $10.00
  - Textiles, Clothing and Design 205: $5.00
  - Vocational Business Education 137, 117, 118, 299: $5.00

Special Instructional Fees:
- Applied Music: Voice and all instruments: $55.00
- One semester credit hour: $17.50
- Two semester credit hours: $115.00
- Three semester credit hours: $172.50
- Conference, non-credit and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved.

Music instruments are available from the University.
- University Program and Facilities Fees (UPPF)-Undergraduate or Graduate: $15.00

University Student Services Fees (UPPF)-Undergraduate or Graduate:
- Full-time students, undergraduate or graduate (12 credit hours or more) per semester: $46.50
- Part-time students, undergraduate or graduate (less than 12 hours) per semester: $28.00
- Tuition and other per-credit fees for every student each semester: $7.50 of each of these fees is designated for Campus Recreation.

The UPPF fees are divided into two separate funds: Fund A Student Fees and Fund B Student Fees. Fund A Student Fees are established and allocated by the elected Student Government subject to the approval of the Board of Regents. Fund A Student Fees are refundable upon request in accordance with guidelines and Regents policy. Fund A Student Fees are being submitted to the Board of Regents for final approval.

The student body has the option of paying $50 per semester or $25 per term for the Student Association fee. The fee is refundable in accordance with the University Refund Schedule.
### Test Fees:

Due to some may prohibit registration for future academic semesters. Fees for withdrawals are figured from the official beginning of the semester as stated in the University's academic calendar, not from the beginning of the student's individual class schedule. Refunds will be made by the University. Students who receive financial assistance and withdraw during the refund period may have to repay all, or a portion, of their financial aid received. A financial aid recipient should first contact the Office of Financial Aid prior to an official withdrawal from the institution.

### Refund Schedule:

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-credit course</td>
<td>$75</td>
</tr>
<tr>
<td>4-credit course</td>
<td>$100</td>
</tr>
</tbody>
</table>

### Tuition and Fees:

<table>
<thead>
<tr>
<th>Type</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Semester</td>
<td></td>
</tr>
<tr>
<td>Period of Drop/Withdrawal</td>
<td></td>
</tr>
<tr>
<td>Last official day of semester</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Summer Sessions (5 or 6 Week):

<table>
<thead>
<tr>
<th>Type</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Semester</td>
<td></td>
</tr>
<tr>
<td>Non-Credit and Special Courses (10 Weeks or More)</td>
<td></td>
</tr>
<tr>
<td>Regular Semester</td>
<td></td>
</tr>
<tr>
<td>Less Than 10 Weeks in Length</td>
<td></td>
</tr>
<tr>
<td>Withdrawal before classes start</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Traveling Scholar Program:

As a member of the Mid-America States University Association, the University of Missouri at Omaha participates in the MASA Traveling Scholar Program. University cooperation with the University of Missouri, University of Nebraska, University of Oklahoma, and Oklahoma State University. The MASA Traveling Scholar Program is designed to provide breadth and depth in the opportunities for graduate study at each of the MASA universities. By permitting advanced graduate students to study at another MASA university, they may utilize unique facilities or specializations.

### Interstate Reciprocity Agreement

Under an agreement between the Board of Regents of the University of Nebraska and the Board of Curators of the University of Missouri, graduate students meeting the regular in-state resident tuition requirement who are residents of the appropriate number of hours and pays less at the home university. Additional information concerning the MASA Traveling Scholar Program is available in the Office of Graduate Studies.

### Financial Aid for Graduate Students

Each year two Presidential Graduate Fellowships are awarded to graduate students who are in the...
The Graduate Fellowships are designed to allow outstanding students to concentrate their efforts on the completion of their thesis or coursework and do not require the performance of specific duties. The following criteria and procedures for selection of the Presidential Fellows have been approved by the UNO Graduate Council:

**Criteria**

1. The recipients must have demonstrated a high level of scholastic and personal accomplishment.
2. The recipients must have been admitted to candidacy. It is expected that the recipients will complete their work for their degrees during the year in which they hold the Fellowship.
3. Recipients must have at least a 3.5 cumulative G.P.A.

**Nomination Procedures**

1. Each graduate department/area shall be allowed to submit one nominee for the award.
2. Each department/area shall submit the names of their nominees, at least one month in advance, with each Graduate Assistant's letter of recommendation and the nominee's resume. Other documentation may also be submitted.
3. All nominations and accompanying documentation should be in the Office of Graduate Studies by June 15. A decision will be announced by July 15.

**Selection Procedures**

1. An ad hoc committee of the Graduate Council (one member from each committee; committees select their own representatives) will be charged with making a recommendation to the Dean for Graduate Studies and Research of three persons; two people plus one alternate.

**Graduate Assistantships**

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

A Graduate Assistantship entitles the holder to a waiver of tuition costs up to twelve hours of graduate credit per semester. Most Graduate Assistantships are also eligible for tuition waivers during the summer sessions. Graduate Assistants may apply for a Graduate Assistant tuition waiver for the one-semester level coursework that is required to meet a deficiency identified in the Graduate Assistant's application for admission and is the basis for provisional admission to the graduate program in the Assistant's respective department/area. The application must be recommended in writing by the respective department/area to the Dean for Graduate Studies and Research; approval must be granted by the Dean of Graduate Studies and Research.

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

**Policy Governing Graduate Assistantships**

I. **Academic Standards**

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

II. **Recruitment and Selection of Graduate Assistant**

Each graduate department or other departmental/unit as appropriate, which awards Graduate Assistantships, shall establish its own procedures for recruitment and selection in accordance with Graduate Program Committee approval. A Graduate Assistant's duties are to be specified in a written agreement.

III. **Work Load**

The work load for a Graduate Assistant should average twenty hours per week for the duration of the appointment and shall be construed to be the equivalent of 0.3 FTE. The department in which the Graduate Assistant is employed should make arrangements with its Assistant regarding vacation periods. The Graduate Faculty considers a student who is pursuing graduate study and holding a Graduate Assistantship to be carrying the equivalent of a full-time work load (see course load below) and, therefore, discourages the practice of holding additional jobs which may interfere with satisfactory performance of assigned duties.

IV. **Course Load**

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

V. **Duties**

Duties assigned to Graduate Assistants should be directly related to and in support of graduate studies in their chosen field of study. Typical examples would be one or more of the following:

1. (1) Teaching undergraduate courses or sections at the undergraduate level.
2. (2) Instructing and supervising undergraduate laboratory or tutorial sections.
3. (3) Supervising, examining, and evaluating academic performance of undergraduate students.
4. (4) Collecting and/or processing research data for faculty members.
5. (5) Preparing materials for laboratories or classroom presentations.
6. (6) In general, other duties which involve a direct knowledge and application of knowledge related to the student's field of study would be acceptable. Graduate Assistants should not be utilized solely for clinical duties.

It shall be the responsibility of each Graduate Assistant Committee, in consultation with the cognizant department chairperson or program director, to grade, with each Graduate Assistant before it is signed by him/her and the chairperson of the Graduate Program Committee. The Graduate Program Committee will approve the appointment of the Graduate Assistant before it is signed by him/her and the chairperson of the Graduate Program Committee.

VI. **Length of Appointments**

Assistantships may be awarded on an academic year basis, a calendar year basis, or semester by semester basis. No student may hold an Assistantship for more than four semesters (excluding summer sessions) unless recommended by the Graduate Program Committee of the department/area. Assistantships are awarded by the Dean of Graduate Studies and Research.

VII. **Justification of New Assistantships**

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

1. (1) qualifications necessary on the part of applicants; (2) expected duties; (3) relevancy of the duties to the student's graduate training; and (4) justification for the Assistantship (as opposed to other job titles).

VIII. **Deletion and Redistribution of Graduate Assistantships**

Presently established Graduate Assistantships are not permitted to be reclassified as Research Assistantships or to be increased. Assistantships created by outside funding will normally be terminated automatically when funding ceases. No special approval is required in such cases. The Dean of 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 accepted into 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 in the Office of Graduate Studies.

**Scholarships**

PhD Delta Gamma, a national sorority for women, annually offers three scholarships of $500 each to women graduate students in good standing with University policy on academic qualifications and financial need. Application deadline is March 1; application forms are available in the Office of Graduate Studies.

**Programs**

Graduation Program offers scholarships of between $100 to $500 to graduate and undergraduate students specializing in Gerontology. Awards are based on financial need, scholarship and commitment to the field of aging. Further information and application forms may be obtained from the Program office.

**Loans**

Graduate students are eligible to apply for National Direct Student Loans (NDSL), Guaranteed Student Loans (GSL) and PLUS Loan programs. The NDSL is based on need and is information contained in a financial aid application form submitted to the Office of Financial Aid, 103 Eppley Administration Building, or later than April 1. GSL's are also based on need in certain situations. The PLUS Loans are not based on need and may be used to
supplement an aid package comprised of a GSL or other institutional aid. To apply for all loans listed above, as well as loans from other sources, contact the Office of Financial Aid.

Work Study

Graduate students may apply for college work/study positions. Eligibility for these positions is based upon information contained in a financial statement which must be submitted to the Office of Financial Aid by April 1.

STUDENT DEVELOPMENT SERVICES

Career Development Center

The Career Development Center assists students, faculty, staff and alumni in exploring career alternatives and making career decisions.

By exploring the many career alternatives in terms of one's interests, values, needs, abilities and aspirations, individuals will be able to develop career goals consistent with their particular lifestyle. To explore and clarify personal and potential occupations, one may become involved in individual counseling, group counseling, testing and career interpretations. A comprehensive Career Information Library is available to assist individuals and groups in exploring the world of work, with up-to-date information on employment trends, occupational information and work-related conditions, as well as required training and qualifications for different career fields.

The annual Summer Career Institute offers both credit and non-credit workshops to undergraduate and graduate students during the summer months as a means of introducing them to a career development process that will lead to more effective career/educational planning.

The Career Development Center is located in 151 Eppley Administration Building, 688-2409.

Career Placement Services

Career Placement Services assists students and alumni from all colleges of the University in their search for career employment.

The Counseling and Employers Aid in assessing student career goals and related employment opportunities.

Literature on local and national employers, career fairs, job descriptions, salary surveys, employment trends, search techniques and interview techniques is available to the University.

All students who are completing degrees are encouraged to register with Career Placement Services by posting a placement file, including a resume and the Career Interview Form. The Career Placement Annual, available to registrants for a small fee, is a valuable directory of organizations who recruit college graduates.

Students are prepared and permanently maintained for candidates requiring registration for certification. A complete listing of local and regional teacher vacancies is available to all teacher candidates.

Career Placement Services operates two basic programs:

- Campus Recruiting: Each semester local and national employers seeking December, May and August graduates visit the campus to conduct interviews with candidates registered with the office. Interviewing facilities are provided.

- Candidate Referral: Throughout the year, local and regional employers contact our office seeking potential employees. Career Placement refers qualified candidates directly to the employers and assists in arranging candidate interviews.

Career Placement Services sponsors numerous career employment topics.

Programs include groups, seminars or individual sessions. Job Readiness Workshops are offered each semester to help students develop interviewing skills and job search materials, i.e., letters of application, resumes and other items.

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

Counseling Services

Counseling services are provided to assist UNO students in their educational, emotional, personal and professional development. The Counseling Center is to use all available resources to assist students in making positive adjustments in their academic and personal lives. Students use the Counseling Center to talk about concerns with counselors, educational-vocational planning, family and personal problems, friends and financial difficulties.

The Counseling Center is staffed with professionally trained and experienced counselors. Students may come to the Center at their convenience during the day or evening hours. Students are assured that their privacy will be respected. Conversations with a counselor are held in confidence. No information is shared without the student's consent. Minor persistence students are not asked about funds of assistance available. The Counseling Center acts as a referral agency for students seeking the availability of a large number of community and community professional resources for the student.

General counseling services are provided at no charge for students and other members of the university community. Appropriate fees are charged for services to people who are not students or not within the University.

The Counseling Center provides a professionally qualified resource team in assisting students to make appropriate decisions related to their academic and personal concerns and to take advantage of various assistance tools. While there is no single test or group of tests that will magically reveal the information a person is seeking, the Counseling Center is able to assist students in the area of understanding themselves.

Test and Interpreters: The results of these tests and the assistance provided by counselors from the Counseling Center are available for those who seek expanded information gained from the test results and counseling services.

The Counseling Center is located in 115 Eppley Administration Building and is open during the day and early evening hours. Students are welcomed to make contact with their counselor. An appointment is encouraged.

Testing Center

A variety of testing services are available through the UNO Testing Center, located in Eppley Administration Building. Among these are the Graduate Record Examination, Millie Analysis Tests, Graduate Management Examination, Tests of English as a Foreign Language and Law School Admission Test. The Testing Center is staffed with professional, interested and experienced personnel.

Resources include a comprehensive Career Information Library available to the University. A Testing Center, a computer-oriented test administrator who can develop a comprehensive Career Information Library available to those who seek expanded information gained from the test results and counseling services.

The Counseling Center is located in 115 Eppley Administration Building and is open during the day and early evening hours. Students are welcomed to make contact with their counselor. An appointment is encouraged.

Student Part-Time Employment Services

UNO students seeking part-time employment should visit Student Employment Services in 115 Eppley Administration Building. Employment opportunities are available to students in obtaining employment, matching job skills with career interests where possible. Emphasis is placed on assisting the student in seeking an employment service as a liaison job-seeking and helping students obtain part-time jobs.

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 sponsored each year. The Summer Jobs Fair is sponsored by employers with an opportunity to meet and interview with interested employers on campus.

Career Placement Services offers a variety of academic support skills designed to aid in making positive adjustments in their academic and personal lives. Students use the Counseling Center to talk about concerns with counselors, educational-vocational planning, family and personal problems, friends and financial difficulties.

The Counseling Center is staffed with professionally trained and experienced counselors. Students may come to the Center at their convenience during the day or evening hours. Students are assured that their privacy will be respected. Conversations with a counselor are held in confidence. No information is shared without the student's consent. Minor persistence students are not asked about funds of assistance available. The Counseling Center acts as a referral agency for students seeking the availability of a large number of community and community professional resources for the student.

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 171 Eppley Administration Building.

Handicapped Services: This service provides counseling to handicapped students as well as a forum to discuss and initiate need services for students. In compliance with the Rehabilitation Act of 1973 (Sec. 603), handicapped student who is enrolled in a course located in a "non-handicap compliant" environment may require (1) to be transferred to another section of the course which is accessible or (2) to have the course be taught in a course which is accessible. Students may request that three sessions be scheduled in a sequence at the beginning of the semester. Students may request that three sessions be scheduled in a sequence at the beginning of the semester. Students may request that three sessions be scheduled in a sequence at the beginning of the semester. Students may request that three sessions be scheduled in a sequence at the beginning of the semester.
Health Services: UNO Health Services, located in 132 Mio Ball Student Center, is available to all students and provides free First Aid treatment for minor injuries 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 testing program, plus scheduled clinics and programs on selected topics of interest. Health services are open Monday through Thursday from 8 a.m. to 6 p.m. and Friday from 8 a.m. to 5 p.m. A physician's assistant is available to students for free consultation, diagnosis, 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 parking permits.

Student Health Insurance: All UNO students carrying 6 or more hours have the option of contracting for accident and sickness insurance through a group plan made available by the University with a commercial insurance carrier at reduced premiums. 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 referrals 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.

SPECIAL INFORMATION FOR GRADUATE STUDENTS

ADMISSION TO GRADUATE STUDIES AT UNO

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

Admission Procedures and Regulations

A summary of the procedures for admission to graduate studies at UNO can be found on page 8. An Application for Admission must be filed not only by those students desiring to work for a degree, but also by students desiring graduate credit for a renewal of a teacher's certificate, for professional development or for graduate credit to be transferred to some other university. In order to receive graduate credit for any courses taken at UNO, the student must have received an official Certificate of Admission to graduate studies at UNO, must have been admitted to graduate studies at another campus of the University of Nebraska or must have received special permission as a special student. All credentials received in connection with an application for admission to graduate studies at UNO become the property of UNO. Under no circumstances will they be duplicated, returned to the applicant or forwarded to any agency or other institution.

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

- For Fall Semester .......... July 15
- For Spring Semester .......... December 15
- For First Summer Session .......... April 15
- For Second Summer Session .......... June 15
- For Second Summer Session .......... June 15

The above deadlines are the minimum requirements for all programs. Some programs have earlier deadlines. For example, students in the MBA program are admitted only three times a year and applicants must have credentials on file by July 1 for the Fall semester and by December 1 for the Spring semester and for the Summer Session.

Students in the Counseling and Guidance programs are admitted only twice each year and applicants must complete all requirements for admission by April 23 for either Summer Session and for the Fall semester and by November 30 for the Spring Semester.

Special Procedures for International Students

In order to be considered for admission to graduate studies at UNO, an international student whose language of nurture is not English must submit evidence of a TOEFL score of 550 or more and at least one of the following:

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

Students scoring below 600 on the TOEFL must take the Department of English ESL placement Exam before registering for classes. Students whose English language skills are deficient will be required to take undergraduate English courses as determined by the Department of English until the deficiency has been corrected.

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

Categories of Admission to Graduate Studies

1. To a Degree Program
   A. Unconditional Admission
      Unconditional admission to graduate studies may be granted to an applicant who satisfies all the following conditions:
      1. has earned a baccalaureate degree from a regionally accredited institution;
      2. has earned at least a "B" average in all college work attempted;
      3. has earned at least fifteen semester hours of undergraduate work that meet specific requirements of the departments in the proposed major and minor (if applicable).
PLEASE NOTE: Status are to be counted toward the degree.

I. A grade of B or better in the undergraduate work in the proposed graduate major and minor (at least one course in each major field) is required for admission. Provisional admission will not be removed until the student has earned at least the grade of B in each course involved in the first twelve hours of graduate study. A grade of C or below in any of these courses will result in automatic dismissal.

Provisional admission may occasionally be granted to an applicant who has graduated from an unaccredited institution. Unconditional status may be attained upon completion of twelve hours of graduate courses at UNO with grades of B or better, and the teachers of the courses taken must be approved by the Graduate Program Committee and approved by the Dean for Graduate Studies and Research. Provisional status is automatically changed to Unconditional status upon admission to candidacy for the degree.

II. To Unclassified (Non-Degree) Status

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

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

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

Special Permission to Register for Graduate Credit

I. Seniors at an Accredited Institution

Seniors at an accredited institution (including UNO) who have obtained in advance the approval of the appropriate campus Dean for Graduate Studies may receive up to twelve hours of graduate credit for courses taken at any campus of the University of Nebraska in addition to the courses required to complete their undergraduate work, provided that such credits are earned within the twelve months prior to receipt of the baccalaureate degree. Seniors are entitled to enroll only in courses designated B—J or B—M. Graduate coursework taken prior to receipt of the baccalaureate degree may not always be accepted for transfer to other institutions as graduate work or for completion of degree requirements at the University of Nebraska at Omaha.

II. Temporary Admission

When unforeseen 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 twelve weeks of the semester, furnish the Office of Admissions with all materials required by the cognizant department or the Office of Graduate Studies to assure that the student is in good standing in a graduate level degree program at the institution. Students who fail to furnish such materials will be dismissed by the Dean for Graduate Studies and Research from all graduate courses at the end of the eighth week period, and will not be permitted to take classes beyond that date. Students seeking temporary admission to a degree program must realize that even if all admission materials are presented, the Graduate Program Committee evaluating these materials may deny admission to the program. If this occurs, a determination will be made as to whether the student may continue graduate studies in the Unclassified status or will be dismissed from all graduate courses.

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

Students who have been accepted for graduate studies at UNO (by having an Intercampus Registration Form) are admitted to graduate study 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.

REOUIRED APTITUDE OR ADVANCED KNOWLEDGE TESTS

The scores on nationally recognized aptitude or advanced knowledge tests are used by each Graduate Program Committee to provide evidence of an applicant's potential to perform at the graduate level and to provide guidance in the development of an appropriate plan of study for each student. The UNO Graduate Faculty has designated for this purpose: The Graduate Record Examination (GRE), the Graduate Management Admission Test (GMAT) and the Miller Analogies Test (MAT).

A student with Unclassified status is not required to take the aptitude test or advanced knowledge tests. Admission requirements for each degree program are determined by the cognizant Graduate Program Committee. Some departments/areas require that the scores on all designated tests be submitted prior to admission; the applicant should consult the appropriate degree description or the Graduate Record Examination (GRE), the Graduate Management Admission Test (GMAT) and the Miller Analogies Test. Certain students who have taken the GRE, GMAT or MAT may be accepted on a test basis, and the scores may be accepted for admission by the cognizant Graduate Program Committee. Some departments/areas require that the scores on all designated tests be submitted prior to admission; the applicant should consult the appropriate degree description or the Graduate Record Examination (GRE), the Graduate Management Admission Test (GMAT) and the Miller Analogies Test. Certain students who have taken the GRE, GMAT or MAT may be accepted on a test basis, and the scores may be accepted for admission by the cognizant Graduate Program Committee.

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 departments/areas, students should contact their department/area for information.

Graduate Management Admission Test

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

Miller Analogies Test

With department/area approval, graduate students in a number of programs may take the Miller Analogies Test in lieu of the Graduate Record Examination general aptitude portions. Applicants for admission into graduate programs in Counseling and Special Education must take the 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 results of which can be used only at UNO, is available at the UNO Testing Center at frequent intervals.
ADMISSION 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 readmitted to graduate studies before registering for classes. Such readmission is subject to approval first by the department/area and then by the Dean for Graduate Studies and Research. In order to be readmitted, the students must complete a new Application for Admission form indicating the department/area to which they were last admitted; changes of program and/or category of admission can be accomplished subsequent to readmission. Students are advised to complete the readmission process prior to registration.

REGISTRATION

All persons who attend classes at the University must have been admitted to the University; they are required to register and pay the established tuition and fees. The dates, times, locations, and procedures for registration are listed each semester in the “Graduate Class Schedule” which is available at the Office of the Registrar and at the Office of Graduate Studies.

ADMISSION TO CANDIDACY FOR THE DEGREE

Students are eligible to receive a graduate degree only if they have been formally admitted to candidacy for the degree and have satisfied all requirements. It is the students' responsibility to make applications for admission to candidacy for the degree as soon as they are eligible to do so. Each application should provide evidence that the student is capable of graduate-level performance and should contain a coherent plan of study and research that conforms to all policies of the UNO Graduate Faculty and of the cognizant graduate department(s).

In order that a coherent plan of study be developed early in each graduate program, it is the policy 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 at the same semester in which the student is admitted to candidacy for the degree.

Eligibility

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

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

Procedures

An application form for admission to candidacy for the degree may be obtained from the advisor or from the Office of Graduate Studies. The form should be completed by the student, in consultation with the major (and minor) advisor. The application should be typewritten and completely planned at this time. The application(s) should then be submitted to the advisor(s) to the department/area Graduate Program Committee. The application has been approved by the Committee and all required department/area signatures obtained, the application is then submitted to the Dean for Graduate Studies and Research for approval.

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

Guidelines for Construction of a Plan of Study

Every plan of study shall conform to all policies of the UNO Graduate Faculty and of the cognizant graduate department(s). The following general guidelines should aid students and advisors to construct a plan of study:

1. At least one half the hours of non-thesis coursework on a plan of study should be in courses which are restricted to graduate students only (B-V or 9-)

2. A plan of study for an Option I Master of Arts or Master of Science degree shall have at least six thesis hours in the major area.

3. A maximum of fifteen hours of coursework used to satisfy the requirements of a previous degree may be applied toward the requirement for a second graduate degree if the hours are approved by the Graduate Program Committee responsible for the second degree program and by the Dean for Graduate Studies and Research. Any courses used in this way must satisfy the time limitation restriction for degrees.

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

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

6. If there are any irregularities (such as a late filing of the application, courses which were not taken within the period of specified limits, etc.) in the plan of study or application, a memo explaining these irregularities and stating the recommendation of the Graduate Program Committee should be attached to the application.

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

THESIS OPTION

A thesis option provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Students in many degree programs may elect a thesis option. In other programs, it may be impossible or undesirable to do so.

For each student pursuing a thesis option, the Dean for Graduate Studies and Research appoints a supervisory committee to guide research and examinate the thesis. For information on the appointment leading to the degree that the student desires, see the supervisory committee section in this Graduate Catalog. The supervisory committee should be appointed as early in the student's program as possible. The committee shall supervise all aspects of the thesis project and approve the final form of the thesis.

The thesis shall be submitted no later than eight months before the anticipated date of graduation in order to provide sufficient time for research, writing and examinination. It is the responsibility of the student to follow all regulations contained in the pamphlet, "Instructions for the Preparation of Theses and Dissertations in the Graduate Program". The student will submit two copies of the thesis for examination with the final copies of the thesis to the Office of Graduate Studies.

The student shall then be notified of the acceptance of the thesis. Two copies, the original and one additional, are required for the Library. Students may wish to have additional copies for themselves, for the department and/or adviser, or for others. The cost of binding all copies is to be paid by the student before submitting the final copies of the thesis to the Office of Graduate Studies. The final copies of the thesis shall be submitted to the Office of Graduate Studies at least 90 days before the date of expected graduation and at least one year in advance of the anticipated date of graduation.

FINAL COMPREHENSIVE EXAMINATIONS

A final comprehensive examination is required for all candidates for the Master's Degree. There are three exceptions to this rule where an alternative measure of mastery has been approved: The M.S. in Business Administration; the M.P.A.; and the M.S. in Psychology, Educational Psychology or Industrial/Organizational Psychology. The comprehensive examinations should be taken near the conclusion of the students' programs and should test the students' knowledge and ability to synthesize that knowledge in the analysis of questions involving more than one concept. For those candidates not writing a thesis, the examination is written. For those candidates writing a thesis, the final comprehensive examination may be either written or oral. The examination will be arranged by the cognizant department/area. All comprehensive examinations should be written at least 12 hours after the oral defense of the thesis, at which time the oral portion of the examination may be devoted to the courses taken by the candidate and one half to the thesis. If the student has a defined minor, the minor advisor may require that the student take a comprehensive examination in the minor field. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor 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 registration; however, students should check with their advisors early in their programs to determine departmental policy concerning the administration of the final comprehensive examinations.

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

Graduate students are expected to do work of high caliber. Failure to do so will result in all 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:

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 "C" or "C+" in any courses taken in the students major field of study or in any course included in the plan of study, regardless of the average;
3. receiving a grade of "D", "D+", or "F" in any course taken in the students major field of study or in any course included in the plan of study.

For students with Unclassified admission, the above quality of work standards apply to all courses taken, just as if such courses were included in a graduate plan of study. Any extension of time will be reviewed by a student's committee and approved by the cognizant Graduate Program Committee for any of the following:

1. unconditional reinstatement to the degree program (if appropriate);
2. reinstatement with Unclassified status in order to retake specific courses, with possible readmission to the degree program;
3. reinstatement with Unclassified status.

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

TRANSFER OF GRADUATE CREDIT

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

Transfer of Credits Taken Outside the University of Nebraska: Students in a Master's degree program may request permission to transfer from other accredited graduate schools as many as six semester hours of credit on a thirty-hour program or nine semester hours of credit on a thirty-six-hour program provided the courses are pertinent to the student's graduate program. The credit will be transferable to the student's program at the discretion of the Dean for Graduate Studies and Research. Work accepted for transfer of credit must have been completed within the prescribed time limits for graduate degrees.

In the Special Education degree programs, six semester hours of work beyond the Master's degree level may be recommended for transfer credit upon recommendation by the major advisor and with the approval of the Dean for Graduate Studies and Research. This approval will be based on the following:

1. The grade earned in the course must be a grade of "B" or higher.
2. The course must be equivalent to a graduate course at the University of Nebraska.
3. The course must be in a field related to the student's graduate program.

Transfer of Credits Taken at the University of Nebraska: There are no prior limits on the transfer and applicability of credits earned in one program of the University of Nebraska toward meeting degree requirements in another such program, except as they are used to earn different degrees. However, such credit must be individually evaluated and approved by the appropriate Graduate Program Committee and the Dean for Graduate Studies. The student must first contact the Dean for Graduate Studies prior to registering for courses to discuss the credit that may be transferred.

Conflict of Credit: Credit for the same courses cannot be used toward the completion of any two graduate degree programs. The Dean for Graduate Studies will rule on conflicts of credit on a case-by-case basis.

INCOMPLETES

Purpose

The grade "Incomplete" ("I") is to be used by an instructor at the end of a term to designate incomplete work in a course. It should be used when a student, due to extenuating circumstances such as illness, military service, childbirth or death in the immediate family is unable to complete the requirements of the course in the term in which the student is registered for credit. "Incompletes" should be given only if the student has already substantially completed the requirements of the course. Each instructor must judge each situation as to whether an "I" is appropriate.

Removal

Instructors must indicate by a departmental record, with a copy to the students, the means and the deadline by which the "I" is to be removed, and if they are at the University at the time of the removal, they must supervise the make-up work and report the permanent grade. In the event that the instructor is not available at the time of the student's application for removal of an "I," the department chairperson shall supervise the removal of the Incomplete and turn in the permanent grade for the student. All grades of "F" on courses taken during the first term of the student's major field of study or in any course included in the plan of study must be within the prescribed time limits for graduate degrees and is subject to restriction if previously used to satisfy requirements for another graduate degree.

Accrual of Two or More Incompletes

Two or more "I" grades (excluding thesis or research courses) will result in a stop enrollment for any student. The stop enrollment will be in effect until the record shows no more than one "I" grade. Grades of "I" must be removed within one semester (excluding summer sessions) after they have been awarded or the student will be dismissed from the degree program. Any extension of time will be reviewed by the cognizant Graduate Program Committee for any of the following:

1. unconditional reinstatement to the degree program (if appropriate);
2. reinstatement with Unclassified status in order to retake specific courses, with possible readmission to the degree program;
3. reinstatement with Unclassified status.

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

TIME LIMIT FOR GRADUATE DEGREES

The last thirty-six hours of work on the study for a Master's degree must be completed within four consecutive calendar years. The first year of a student's plan of study is the beginning of the student's graduate education. Time spent in the military service of the United States may be excepted in the application of this rule.

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 cognizant Graduate Program Committee and the Dean for Graduate Studies and Research. Updating can usually be done by taking a special examination or the current semester's final examination in the course. The updated course must be acceptable to the Office of Graduate Studies. Any extensions to the limits of a semester or duration of the plan of study may be approved in the Office of Graduate Studies. Any extension to the limits of a semester or duration of the plan of study may be approved in the Office of Graduate Studies.

OTHER POLICIES

Auditing Courses Offered for Graduate Credit

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

Change of Graduate Degree Program

Students who wish to change their graduate degree programs must obtain the appropriate form from the Office of Graduate Studies; procedures outlined must be followed. The decision as to whether students requesting a change will be accepted shall be left to the Graduate Program Committee, the department/area in which they are seeking admission. 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, whether or not the student holds a graduate associateship. Students enrolling for more than twelve hours must have the approval of the Dean for Graduate Studies and Research.

Courses Offered for Graduate Credit

Courses which are available for graduate credit are those which have been approved by the UNO Graduate Faculty or its designee. All syllabi for courses approved for graduate credit are on file in the Office of Graduate Studies. Students will not be allowed to upgrade or retake courses previously taken for undergraduate credit so that they can be used for any purpose where graduate credit is required.
A numbering system is used to indicate the availability and level of courses for graduate credit, as follows:

- 3—/—J (e.g., 3/2171/2) or 4—/—M

Courses with these numbers are open to both undergraduate and graduate students. Only 8—J and 8—M 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 senior, advanced courses, open only to graduate students, may be approved by the Graduate Dean for undergraduate students. Undergraduate students may not enroll in these courses without approval of the instructor and Dean of Graduate Studies. See "Admission to Graduate Studies at UNO — Special Permissions to Register for Graduate Credit."

Courses with these numbers are open to graduate students only.

- 8—H

Courses with these numbers cannot be used in the plan of study for any graduate degree.

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. Inquire in the Office of Graduate Studies about the availability of this option for specific courses.

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

Dropping Courses

Students 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 instructor's certification that work in progress was at the "B" level or higher. Approval of the request must be obtained from the Dean for Graduate Studies and Research before the request to drop is submitted to the Office of the Registrar.

Residency Requirements

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

Withdrawal from All Courses

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

GENERAL APPEAL PROCEDURES 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 doctorate objective (but prior to the appointment of a doctoral supervisory committee) should appeal as follows:

1. Initially, the appeal may be submitted to the student's adviser.
2. If denied, the appeal may be submitted to the department/area Graduate Program Committee.
3. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program.

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

1. Initially, the appeal should be submitted to the student's adviser.
2. If denied, the appeal may be submitted to the student's supervisory committee.
3. If denied, the appeal may be submitted to the department/area Graduate Program Committee administratively responsible for the student's graduate program.

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 appropriate appeals body. Within a student's program schedule, if the program is on a different campus or if the program is on a different campus, the Graduate Council of the campus administratively responsible for the program in the case of the augmented Council will constitute the appeal board. The decision concerning augmentations of the Graduate Council for a specific appeal involving registrations on a campus other than the one administratively responsible for the student's program will be made by the Deans for Graduate Studies on the campuses involved.

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

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 the Registrar.

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 exists:

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 the campus Graduate Council).

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

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

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

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

2. Appeals to Committee III of the Executive Graduate Council must be made in writing and must specifically identify the grounds for appeal. Such an appeal must be made within twenty working days of the day the decision of the campus council is received (working days shall not include Saturdays, Sundays, or University holidays).

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 executive 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's 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. If the grade 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 grades appeal procedures approved by the Graduate Faculty or by their duly elected representatives, 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

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

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

Master of Arts

To complete the Master of Arts degree with a major in biology the candidate must present 30 credit hours of graduate coursework in biology to include 6 cr. hrs. of Thesis (899V), 1 cr. hr. of Graduate Seminar (801V), and at least 23 cr. hrs. of appropriate courses to be determined by the student and the faculty advisory committee. At least 8 of these 23 cr. hrs. will be taken at the 800V-level courses. Graduate students are expected to attend the Graduate Seminar (801V) 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 1 cr. hr. of Graduate Seminar (801V), 2-6 cr. hrs. in Independent Research in Biology (802V), and other appropriate courses to be determined by the student and his/her graduate advisory committee. At least 18 cr. hr. of the total 36 cr. hr. required for the degree will be taken at the 800V-level. Graduate students are expected to attend the Graduate Seminar (801V) 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.

323/823J 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.

353/853J 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 145.

363/863J Plant Anatomy (3) A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants. Prereq: Biology 145.

373/873J 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. Prereq: Biology 145.

374/874J Histology (4) Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance. Prereq: Biology 175, and a course in vertebrate anatomy, or permission of the instructor.

410/810M Plant Geography (3) A study of the worldwide distribution of major vegetation types and the ecological and physiological factors that determine their location. Special attention to North America is included. Prereq: Biology 102 and Biology 145, botany, or permission.

412/812M Problems in Ecosystem Management (2) Directed study in the application and evaluation of methods used for managing native and reestablished ecosystems. Prereq: Graduate standing in Biology in permission of the instructor. Biology 346/846 recommended.
Biology courses offered by the University of Nebraska at Lincoln.

**414/414M Cellular Biology** (4) This course is an intensive study of the structure and function of plant and animal cells. Prereq: Biology 145 and organics chemistry, or permission of the instructor.

**418/418M Limnology** (4) A study of the physical, chemical, and biological relationships that establish and maintain plant and animal communities in a freshwater environment. Prereq: Biology 145, 175, and organic chemistry.

**821M Fire Ecology** (3) Study of fire in ecosystems, including characteristics of fire, fire effects on flora, fauna, and the abiotic environment, and use in maintaining native ecosystems. Includes two, one-day, weekend field exercises. Prereq: Biology 331. Graduate standing in biology or permission of instructor. Gradate standing.

**822M Population Biology** (3) An examination of topics in population ecology and population genetics, emphasizing the role of probability in population interactions. Outside research project required. Prereq: Biology 214 and 334 or permission of the instructor. Graduate standing.

**423/823M Organic Evolution** (3) A study of organic evolution in terms of evidences which support the theory and the mechanisms involved in the process. Prereq: Biology 214. Lecture and discussion only.

**427/827M Animal Behavior** (3) Behavior of diverse animals with an understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior in the functional unit. Prereq: Biology 175 or Psychology 101 or permission of the instructor. Lecture only. (Same as Psychology 427/827M.)

**428/828M Animal Behavior Laboratory** (2) Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiments and independent studies will be conducted. Prereq: Biol/Psych 427/827M or concurrent enrollment.

**434/834M Ichthyology** (4) A study of the biology of fishes, including their evolution, anatomy, physiology, ecology, distribution, classification, and identification with emphasis on North American freshwater fishes. Prereq: Biology 175. Biology 435/835M Lichenology: (3) Taxonomy, morphology and ecology of lichenized fungi with laboratory emphasis on identification of the most common species. Other topics for discussion will include symbiosis, air pollution and lichens, chemosynthesis, and modern herbicidal techniques. Prereq: Biol 145 or permission of instructor. Graduate standing in biology.

**437/837M Physiology** (3) A survey of the algae and their ecology, morphology, physiology, taxonomy and evolution. Prereq: Biol 165 or permission of instructor, graduate standing in biology.

**439/839M Vascular Plant Morphology** (3) A study of the structure and function of seed plants with emphasis on their comparative anatomy and morphology and their evolution. Prereq: Biol 165 or equivalent, graduate standing in biology.

**443/843M Mycology** (3) A study of the fungi, including their morphology, physiology, systematics, development and reproduction. Prereq: Biology 145.

**444/844M Plant Pathology** (4) A study of plant processes and functions with emphasis in photosynthesis, growth and development, metabolism, genetics and properties of selected groups of pathogenic organisms. Prereq: biology 145, organic chemistry, or permission of the instructor.

**464/864M General Bacteriology** (4) A study of bacteria and their viruses with emphasis on bacterial structure and function, metabolism, genetics, and properties of selected groups of pathogenic organisms. Prereq: biology 145, organic chemistry, or permission of the instructor.

**472/872M Experimental Endocrinology** (2) Laboratory studies on selected endocrine systems emphasizing experimental techniques and laboratory experience. Prereq: in a course in endocrinology, concurrent registration in Biology 872M, or permission of the instructor.

**473/873M Endocrinology** (3) A survey of endocrine physiology stressing the regulatory and integrative roles of hormones, the control of hormone secretion, and mechanisms of hormone action. Prereq: Organic chemistry, vertebrate anatomy and physiology or permission of the instructor.

**474/874M Animal Physiology** (4) A comprehensive study of animal function emphasizing mechanisms of regulation and control. Prereq: Biology 175, vertebrate anatomy, organic chemistry and physics; or permission of the instructor.

**478/878M Vertebrate Zoology** (4) A survey of the general biology of the subphylum vertebrata including their morphology, physiology and ecology of vertebrate representatives. Prereq: Biology 175.

**479/879M Mammalogy** (4) The biology of mammals, including their evolution, functional morphology, physiology, ecology, zoogeography, behavior, classification and identification with emphasis on North American groups. Field trips. Prereq: Biology 478 or equivalent. Prereq: Biology 478 or permission from instructor.

**484/884M Herpetology** (4) The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification of amphibians and reptiles on North American groups. Prereq: Biology 175.

**485/885M Developmental Biology** (4) A study of the principles of development of multicellular, non-vascular and lower invertebrates. Current concepts of interactions at the biochemical, cellular and molecular levels will be included. Prereq: Biology 165 and 170, or permission of instructor.

**488/888M Invertebrate Zoology** (4) A comprehensive study of the invertebrate animals. Prereq: Biology 175.

**491/891M Protozoology** (4) The biology of protozoa, including their morphology, physiology, reproduction, parasitism, ecology and systematics. Prereq: Biology 478 with emphasis on free-living groups. Prereq: Biology 175.

**492/892M Parasitology** (4) Taxonomy, morphology, physiology, life history, disease and control of parasitic protozoa and helminths. Prereq: Biology 175.

**494/894M Entomology** (4) The study of insects, emphasizing morphology, behavior, life history, ecology, and evolution. Prereq: Biology 175.

**495/895M Vertebrate Embryology and Anatomy** (4) Development and physiology of vertebrate organ systems. Dissection of major vertebrate types, and study of developmental stages from fertilized egg to adult condition. Prereq: Biology 175.

**496/896M Advanced Genetics** (3) 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 in agriculture and medicine. Lecture and discussion of selected readings. Prereq: Biology 214 or permission of instructor. Graduate standing in biology.

**498/898M Ornithology** (•1) An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification, and identification with emphasis on North American groups. Prereq. Biology 175.

**501V Seminar in Biology** (1) A study of current research topics in any of the divisions of biology. Graduate students will complete this course once for credit. Prereq: Graduate standing.

**502V Problems in Biology** (2) Research investigation of various areas of biology. Prereq: sufficient work in biology and the ancillary sciences necessary to pursue adequately the area of study. Prereq: Biology 175.

**506V Current Topics in Zoology** (2) Survey of the recent literature in one or more of the following areas: taxonomy, morphology, zoogeography, ecology, physiology, behavior, zoogeography, and ecology. Prereq: Graduate standing and permission.

**518V Biosystematics** (3) A study of principles and techniques in animal and plant biogeosystematics. The course will focus on the species problem and upon the experimental investigation of the behavior of parasites, and laboratory, and a written report. Prereq: Graduate standing in biology and permission.

**519V Communities and Ecosystems** (3) An advanced study of populations, communities, and ecosystems. May require overnight trips. Prereq: Biol/ Psych 334 or permission of instructor, graduate standing in biology.


**523V Biophysics** (3) A study of the morphology and anatomy of organisms in relation to support, circulation, respiration, secretion, intracellular production. Lecture, laboratory, selected readings, and a written report. Prereq: Graduate standing in biology and permission of the instructor.

**533V Advanced Topics in General Physiology** (3) Studies in general physiology, including such topics as photo-physiology, hormonal regulation of metabolic pathways, temperature-related phenomena, and cyto genetics. Prereq: Lecture, laboratory, and written report. Prereq: Graduate standing in biology.

**538V Environmental Physiology** (3) A detailed study of selected dynamic environmental factors and mechanisms of physiological adaptation by organisms of various taxa. Prereq: General physics, algebra, animal physiology, or permission of instructor. Graduate.

**590V Scanning Electron Microscopy** (3) Use of the scanning electron microscope with special emphasis on biological applications. Included will be all aspects of specimen preparation, light microscopy, electron microscope function, darkroom techniques and interpretation of micrographs. Labor atory wri will emphasize individual student projects. Prereq: Graduate standing and written permission of instructor.

**599 Thesis** (1-6) Independent research project written under the supervision of a faculty committee.

**BUSINESS ADMINISTRATION**

The Master of Business Administration Degree

The MBA is a professional graduate degree designed to provide an intensive educational experience for students who wish 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 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 impact of 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 $3.00 + GMAT $1070
The GMAT score must not be below 450 in computing the above total. There is no guarantee admission will be granted simply because the indicated points have been achieved. Students are admitted on a provisional status until all foundation courses have been completed. GMAT scores must be received prior to the student admission to the MBA program.

Degree Requirements

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

- Economics
  - BA 118V or Macro- and Microeconomics at the undergraduate level
- Accounting
  - BA 118V or 1 year of Principles of Accounting at the undergraduate level
- Business Management
  - MGT 423

Additional courses in each area at the undergraduate level are expected.

Students may be provisionally admitted until all foundation courses have been completed. Students must have completed basic courses in the following areas either as an undergraduate student or in the early part of the graduate program:

- Computer Sciences
  - DS 231
- Quantitative Methods and Statistics
  - BA 817V or an equivalent
designed to be completed by the student's last nine hours of the degree program.

Students are advised to complete the foundation courses before enrolling in either core courses, option courses, or electives.

Graduate Courses: The degree requires a minimum of 36 semester hours for completion.

- Core Courses
  - 18 hours
- Option courses
  - 12 hours
- Electives
  - 6 hours
- Total: 36 hours

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

A thesis is required in one option (Real Estate) and may be elected in others. No comprehensive examinations are required. Instead, the integrative course BA 880V must be successfully completed with a grade of A or B in the student's last nine hours of the degree program.

Core Courses

- BA 800V: Quantitative Analysis
- BA 801V: Business Organization
- BA 802V: Managerial Accounting
- BA 803V: Human Behavior in Organizations
- BA 880V: Policy, Planning, and Strategy

Option Courses

Option #1 — Business Administration

- BA 800V: Environment of Management
- BA 810V: Marketing Policies
- BA 820V: Financial Management
- BA 825V: Business Conditions Analysis

Option #2 — Marketing

- BA 820V: Marketing Policies
- BA 821V: Promotional Policies
- BA 845V: Seminar in Marketing

Option #3 — Finance

- BA 830V: Business Information Systems
- BA 835V: Business Conditions Analysis

- BA 890V: Financial Management
- BA 895V: Introduction to Financial Markets
- BA 897V: Business Information Systems
- BA 898V: Business Conditions Analysis

Option #4 — Accounting

- BA 841V: Business Information Systems
- BA 845V: Seminar in Marketing
- BA 847V: Research Methods in Economics and Business
- BA 855V: Business Conditions Analysis

Option #5 — Economics

- BA 880V: Business Information Systems
- BA 885V: Business Conditions Analysis

- BA 890V: Independent Research (in Decision Science)
- BA 891V: Independent Research (in Decision Science)

Option #6 — Management

- BA 800V: Management
- BA 801V: Business Organization
- BA 802V: Financial Management
- BA 803V: Business Conditions Analysis
- BA 804V: Marketing Policies

Option #7 — Banking and Finance

- BA 805V: Financial Management
- BA 806V: Financial Management
- BA 807V: Financial Management
- BA 808V: Financial Management
- BA 809V: Financial Management

Option #8 — Industrial Psychology

- BA 820V: Personnel Administration
- BA 821V: Personnel Administration
- BA 822V: Industrial Training & Development
- BA 823V: Industrial Training & Development
- BA 824V: Industrial Motivation & Morale

- BA 800V: Management
- BA 801V: Management
- BA 802V: Management
- BA 803V: Management
- BA 804V: Management

- BA 820V: Personnel Administration
- BA 821V: Personnel Administration
- BA 822V: Industrial Training & Development
- BA 823V: Industrial Training & Development
- BA 824V: Industrial Motivation & Morale

Option #9 — Individualized Program

- BA 800V: Individualized Program
- BA 801V: Individualized Program
- BA 802V: Individualized Program
- BA 803V: Individualized Program
- BA 804V: Individualized Program

Student Responsibilities

It is the responsibility of each student admitted to graduate studies to familiarize with the procedures and regulations of the Graduate Catalog. Each student should consult with the Director of the MBA program at least once each semester to assure continued progress toward the degree objective.
811H Survey of Accounting (3) The uses of accounting for purposes of control and decision by managers, shareholders, creditors, and others. This course cannot be used on a plan of study.
Prep: This course is for the graduate student who has not taken principles at the undergraduate level.

817H Quantitative and Statistical Methods for Business Decisions (3) Elementary concepts in quantitative and statistical methodologies. Emphasis is placed on the application of statistical techniques to the business environment, within the framework of the aggregate economy.
Prep: BA 341 and/or Econ 333.

899V Business Conditions Analysis (3) This course is concerned with the statistical measurement and evaluation of general business conditions, and the adopted operating policies employed in solving problems in marketing. Prep: Graduate standing and Marketing 331.

855V Seminar in Marketing (3) A student participation course emphasizing current issues and problems in the field of marketing theory and operation. Prep: BA 830V and BA 831V.

840V Financial Management Policies (3) A marketing management course concerned with the planning, formulating, implementing, and evaluating professionally the complex factors which determine real estate productivity, value, investment, and land use decisions. Prep: Econ 201 and 202 or BA 818H.

861V Current Problems in Real Estate and Land Use Economics (3) A study of current problems in real estate markets affecting decision policies in the private and public sectors. Analysis of economics of land development and use and re-use of real property to provide a viable environment for all citizens. Prep: RE 241, RE 346, RE 440, and RE 441 or equivalent experience.

860V Policy, Planning and Strategies in Real Estate and Land Use Economics (3) An introduction to the examination of real estate economics and the real estate environment for all citizens. An A to B experience. Prep: Taken in last 9 hours of MBA program.

899V Independent Research (3) Research in the field of accounting, finance, management, marketing, quantitative analysis, or the environment of business. Maximum of nine hours from three different fields.

811H Special Studies in Business (1-3) (May be repeated up to 6) A series of special courses non-routine design and development in a specific area of Business Administration, scheduled as a workshop or seminar according to purpose. Prep: Graduate student in good standing and as indicated for specific course.

899V Thesis (1-6) A research project, under the supervision of a faculty thesis advisor in the College of Business Administration, in which the student demonstrates his ability to plan, organize, and conduct a comprehensive research project of original investigation of a high order of originality. The research topic and the completed project must be approved by the student's faculty thesis advisor, and two other faculty members, one of which must be from outside the program area. Prep: Permission of graduate advisor.

CIVIL ENGINEERING

Master of Science

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

840V Practice Experiences (3) This course provides the student a better understanding of the basic principles and methodology used in the design of civil engineering projects. Emphasis is placed on Personnel Management, Decision Making, and Problem Solving. Prep: Determined by the faculty of the merged departments of Civil Engineering at Ohio State University.
Consult current
Graduate Studies Bulletin

Graduate Work: Graduate work in Civil Engineering is governed by the general requirements of the Graduate College. Selection of the option and program are subject to approval of the students' advisor and the departmental Graduate Committee. A student applying for admission should designate the primary area in which he/she wishes to study. Major work for the Master of Science degree may be selected from the areas of structural, geotechnical, transportation, hydraulic, sanitary and water resources engineering. A minor area may be selected from any of the related Civil Engineering areas, or from other related departments. Other supporting courses will be selected from advanced or graduate courses having some relation to the major groups.

360/860M Transportation Engineering II (3) Introduction to planning and analysis of multi-modal transportation projects. Governmental policies in the finance and control of transportation, traffic and urban planning techniques and their effect on land use, the environment and social and economic development. Economic, operational and control characteristics of existing and future transportation modes. Prereq: For 360, upper standing or permission of the instructor. For 860M, graduate standing or permission of the instructor. Not available for graduate credit for engineering students.

400/890M Environmental Quality and Control, Land, Air, and Water. The principles of the ecology, engineering, and planning for the control and management of the physical environment (land, air and water) including civil, environmental and water economy; air and water pollution, and environmental planning. Prereq: For 400, senior standing. For 890M, graduate standing.

425/824 Chemical Analysis Laboratory (1 to 3) Determination of the chemical characteristics of waste water, soil, sediments, etc. in chemical treatment processes. Prereq: CE 226, 227, or equivalent.

425/825 Biological Analysis Laboratory (1 to 3) Determination of the microbiological and physical characteristic of the sewage, sediments, and sludges. Prereq: CE 225, 226, or equivalent.

416/816M Environmental Pollution Control (3) An introduction to the engineering principles of control of air pollution, solid waste, and radioactive wastes in relation to the total environment. Introductions of air, water, and land usage parameters are stressed. Prereq: For 416, junior standing in engineering or permission of the instructor. For 816M, graduate standing or permission of the instructor.

427/827 Design of Sanitary Treatment Facilities (3) The step by step design of treatment facilities including planning of layout and specifications. Prereq: CE 226, 227, or 428 or 428 equivalency.


429/829 Applications of Microbiology to Sanitary Engineering (3) Applications of microbiology related to the treatment of wastewater, and the bacteriological examination of water and waste water. (Lecture 1, lab 1). Prereq: For 429, Civil Engineering 327. For 829M, graduate standing.


836M Foundation Engineering (3) Subsoil exploration and interpretation of results. Application to foundation systems; determination of allowable bearing pressures from laboratory and field data; proportioning of concrete; pile driving analysis; conditions for settlement; design of deep foundations; pile driving analysis; conditions for settlement. Prereq: Graduate standing, Civil Engineering 330; or equivalent.

441/841M Structural Analysis II (3) Analysis of statically indeterminate structures, including continuous beams, plates and frames in relation to the total environment. Introductions of air, water, and land usage parameters are stressed. Prereq: For 441, Civil Engineering 310. For 841M, graduate standing.

444/844M Steel Design I (3) An introductory course involving the application of the basic principles of structural materials and the current practices in proportioning of structural members in steel structures. Prereq: CE 110M or permission of the instructor. For 844M, graduate standing.

445/855M Structural Analysis III (3) Computation of stresses resulting in statically indeterminate structures including beams, and planar and three dimensional frames and trusses using matrix formulation (Finite element method), advanced finite element techniques and computer analysis. Computation of shear and axial deformation of columns, effect of normal and shear forces to the usual flexural deformations. Effects of temperature and pre-cast, support displacements, axial supports, and axial-fluxural interaction. Prereq: For 445, Civil Engineering 441 and digital computer methods. Prereq: For 855M, Civil Engineering 441 and graduate standing.

446/846M Reinforced Concrete I (3) A continuation of Civil Engineering 446, but directed toward building systems. Steel and timber structural systems are studied. Prereq: For 446, Civil Engineering 446. For 846M, Civil Engineering 844 and graduate standing.

447/874M Reinforced Concrete II (3) The use of reinforced concrete design principles in special applications including columns and founda­ tions, and the study of additional design concepts including deflections, prestressing and tension. Prereq: For 447, Civil Engineering 443. For 874M, Civil Engineering 847 and graduate standing or permission of the instructor.

458/858M Plastic Analysis I (3) Applications of plastic analysis to frame structures, plastic collapse concepts, upper and lower bound theorems, and moment balancing are applied to various frame geometry. Member selection and deflection calculations. Prereq: In Civil Engineering 351 or equivalent. For 858M, graduate standing or permission of the instructor.

459/859M Plastic Analysis II (3) Concepts in planning, locating and designing plastic structures. Prereq: For 859M, graduate standing or permission of the instructor.

462/862M Civil Engineering 462 (3) Principles in planning, locating and designing transportation systems including air, rail, road and water. Prereq: For 462, upper class standing and permission of the instructor. For 862M, graduate standing or permission of the instructor.

463/863M Urban Transportation Planning (3) Development of urban transportation system planning objectives and goals, data collection procedures, land use and travel forecasting techniques, trip generation and modal choice analysis. Mass transit system design, operation and evaluation. Prereq: Upper class standing or permission of the instructor.

464/864M Airport Planning and Design (3) Planning, layout and design of airports. Analysis of airport financing, site selection and estimation of aerodynamic data, effect of air traffic control and aircraft characteristics are discussed. Environmental effects of airports including noise and air pollution problems. Prereq: For 464, upper class standing and permission of the instructor. For 864M, graduate standing or permission of the instructor.

465/865M Transportation Geometrics (5) Functional design of transportation systems with emphasis on highway, railway and airport design considerations. Horizontal and vertical alignment, optimization of curves, objective design of roads and clearances, calculation of critical traffic density, determination of deadweight, centerline and ramp curves. Design of highways, expressway, and trunk routes. Calculation and design of geometric shapes. Prereq: For 465, upper class standing and permission of the instructor. For 865M, graduate standing or permission of the instructor.

466/866M Traffic Engineering (3) Characteristic of traffic flow as influenced by the interaction of the driver, vehicle and roadway conditions. Pedestrian, bicycle and vehicle flow, parking and road pavement analysis. Traffic laws and ordinances. Highway capacity, accident investigations, roadway and channelized traffic control devices. Prereq: For 466, upper class standing or permission of the instructor.
class standing and permission of the instructor. For 460M, graduate standing and permission of the instructor.

460/860M Portland Cement and Asphalt Concrete Laboratory (1) Laboratory and field procedures used to obtain Portland cement and asphalt concrete for engineered constructions. Prereq: CE 335 or equivalent. For 860M, graduate standing.

460/869M Pavement Design and Evaluation (3) Thickness design of flexible and rigid pavement systems for highways and airports; design of paving materials; evaluation and strengthening of existing pavements. Prereq: For 460, CE 334 or equivalent. For 860M, graduate standing.

470/870M Construction Management (3) Estimating and bidding, scheduling (Cpm, pert), contracts, bonds and insurance, cost control systems, equipment utilization, code and zoning. Prereq: Permission of the instructor. For 870M, graduate standing.

472/872M Construction Techniques (3) Job planning and management; construction equipment; construction materials; construction methods. Prereq: Permission of the instructor.

474/874M Construction Cost and Controls (3) A course emphasizing accounting, cost and management control as related to construction. Emphasis will be placed on the bases and the implications of the various relationships between the accounting and management aspects will be presented with emphasis on the informational and controlling segments of costing. Estimating, bidding, control, and office procedures as they apply to costing and control will be discussed. Prereq: For 474, permission of the instructor. For 874M, graduate standing and permission of the instructor.

480/880M Engineering Economy (3) Economic comparison of engineering alternatives. Studies of equipment selection; quantities and prices; depreciation; break-even points and minimum cost points. Prereq: For 480, senior standing. For 880M, graduate standing.

483M Reinforced Concrete I (2) A study of the principles of mechanics applied to reinforced concrete structural members. Emphasis on flexure, shear, and bond. Prereq: Graduate standing.

490 Graduate Research (Thesis) (3-6) Doctoral Dissertation (Arranged) Prereq: Graduate standing and permission.

COMMUNICATION

Master of Arts

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

Unconditional admission may be granted to a student whose record includes at least the following:
1. Certification of a Bachelor's degree from a regionally accredited institution;
2. Documented (official transcript) of having earned a grade of B or better in the undergraduate work in a major or minor field;
3. A minimum of 2.75 overall undergraduate average or a 3.0 average in the last half of the undergraduate work.

By written permission of the instructor, a student may be accepted into the program in transitional status. This permits the student to take a maximum of 9 semester hours of graduate courses without formal admission to the degree program. The student is subject to the normal procedures for admission in the transitional status. A written recommendation of the instructor to the Department must accompany any request for provisional admission.

By written permission of the instructor, a student may be accepted into the program in transitional status. This permits the student to take up to 9 semester hours of graduate courses without formal admission to the degree program. The student is subject to the normal procedures for admission in the transitional status. A written recommendation of the instructor to the Department must accompany any request for provisional admission.

Provisional admission may be granted to a student who has completed the requirements for unconditional admission but who is not yet a graduate student. Provisional admission will be granted for a maximum of 9 semester hours. The student must be approved by the Department.

Before deciding whether or not to recommend provisional admission, the Department's graduate faculty may require one or any combination of the following:
1. Completion of prescribed course(s) — not for graduate credit — with a grade of B or higher.
2. Two written or oral recommendations from persons who are in a position to evaluate the applicant’s potential for graduate study.
3. Pass such test(s) as the faculty members deem necessary in order to determine whether the applicant is adequately prepared for graduate study.

All students who major in Communication are required to complete the 12 semester hours of core courses prescribed by the Graduate Committee. These core courses provide a basic, intensive and broad coverage of communication as a field of advanced study, including foundations of both mass and transactional communication in conjunction with research and theory. The core courses are Communicative Process (COMM 442, 842V, 872V, and 874V), a discussion of theory and research. An elective track is required and consists of 12 semester hours at the advanced level. The student must complete at least 15 undergraduate semester hours of appropriate courses in communication arts and sciences including sufficient advanced (upper division) preparation in the area of graduate concentration.

Admission to graduate studies in the School of Communication is open to students who have completed a baccalaureate degree from an accredited institution. Although a 3.0 undergraduate average is preferred, qualified students are encouraged to apply. Students with lower grades may be admitted under special circumstances.

Provisional admission may be granted to a student who has completed the requirements for unconditional admission but who is not yet a graduate student. Provisional admission will be granted for a maximum of 9 semester hours. The student must be approved by the Department.

Before deciding whether or not to recommend provisional admission, the Department's graduate faculty may require one or any combination of the following:
1. Completion of prescribed course(s) — not for graduate credit — with a grade of B or higher.
2. Two written or oral recommendations from persons who are in a position to evaluate the applicant’s potential for graduate study.
3. Pass such test(s) as the faculty members deem necessary in order to determine whether the applicant is adequately prepared for graduate study.

At least half of the credit earned must be at the graduate level. The student must be approved by the Department.

The student's plan of study must be approved by the Department. The plan of study will be based on the student's interest and the requirements of the Department. The student is responsible for maintaining a minimum cumulative grade point average of 3.0.

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 completed thesis is defended orally before the committee. The student must also take a written comprehensive examination covering his or her major emphasis and minor or area studies.

Successful completion of 36 semester hours of coursework, at least 18 hours of which must be courses open only to graduate students. At least half of these courses are at the 800 level or above. The student must pass the comprehensive examination covering the student’s major emphasis and minor or area studies.

580M Film Theory and Criticism (3) Study of major trends in film criticism and theory in Europe and America, with concentrated analysis of selected films. Prereq: Comm 231 or DA 105 or permission of instructor.

590M Mass Media and Society (3) The study of mass media as social institutions, particularly in their interaction with government and public opinion, with emphasis on ethical considerations.

591M Communications Law (3) A discussion of laws, courts decisions, constitutional principles, and regulations that affect the mass media, with emphasis on law, public, and private media, with emphasis on law, public, and private, with emphasis on law, public, and private, with emphasis on law, public, and private.

592M Communications: The First Amendment: Speech and Press (3) An examination of freedom of communication in the United States and Europe, with particular attention to freedom of the mass media and the many attempts at censorship. This course examines the legal and political aspects of freedom of speech and the press and the theories held to support or limit such freedoms. Prereq: Comm 441, 2.0 GPA, Eng. 116.

593M Public Opinion and Communication: Public Opinion and Public Communication (3) A study of the philosophy, process, and effects of mass communication in the U.S., with emphasis on the relationship between the mass media and public opinion, and the nature, function, and measurement of public opinion.

595M Persuasion (3) Basic principles and psychological processes underlying persuasive communication; a review of various source, message, context, and audience variables and their influence on communication effectiveness. Prereq: Comm 101 or 111 and 3 hours of psychology or sociology, or permission of instructor.

597M Psycholinguistics (3) A discussion of the literature concerning how such psychological variables as perception, learning, memory, and other factors related to the linguistic variables of sentence structure, meaning, and speech sounds. Prereq: Permission. (Same as Psy 450/852S.

598M Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of culture and communication, and towards the development of a personal relationship, with the purpose of bringing to awareness those factors which disturb communication in
cross-cultural, subcultural, ethnic, and racial situations. (Same as Sociology 453 and 853M)

854M Contemporary Systems of Communication (3) An adaptation of General Systems Theory concepts to the study of human communication processes with emphasis on systems analysis of contemporary interpersonal communication perspectives. Required: Graduate standing and major in Communication, or permission.

855M Nonverbal Communication (3) A study of nonverbal communication in face-to-face and small group, speaker-attendance, and mass media settings. Reading, research and illustrative examples of nonverbal encoding and decoding.

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

890V/911M Seminar in Mass Communication (3) A seminar with particular interest to the student's broad, general, or specialized area. The seminar is a continuation of Communication 890V or 891V in the same topics.

213 or equiv. (3) Studies in figures, movements and institutions prominent in modern public address. May be repeated. Required: Permission.

890V Communication Research Methods (1) A variable content course dealing with research methods in communication. Each offering will treat a single research method in depth—e.g., survey, experimental, content analysis, qualitative, legal, etc. Required: Comm 801V or permission.

811V Seminar: Modern Public Address (3) Studies in figures, movements and institutions prominent in modern public address. May be repeated. Required: Permission.

830V Topical Seminar in Mass Media (3) A comprehensive study of specialized areas and modes of broadcasting, film, and print communication. Content will vary. Course may be repeated. Required: Graduate standing and major in Communication or instructor's permission.

847V Foundations Seminar: Transactional Communication (3) This seminar was designed for students preparing to take the major or minor, or advanced seminars in Communication. Universal human symbolizing processes (e.g., using words, gestures, symbols, and art) will be explored intensively and extensively. Principles underlying current issues in transactional (i.e., Mass) communication will be emphasized by means of selections from recent developments in communication theory, including Semantics, Information Theory, Structuralist and Post-Structuralist Communication Theory, Humanistic Communication Theory, and Communication Theory in the social sciences. Required: Graduate standing and major in Communication or instructor's permission.

850V Seminar in Communication Theory (3) Analysis of current approaches to the study of communication, with emphasis on theoretical models, and their application to various professional interests. Required: Communication 847V or the instructor's permission.

857V Foundations Seminar: Mass Communication (3) This seminar was designed for students preparing to take the major, minor, or advanced seminars in Communication. The mass communication system in the United States will be examined in terms of its basic philosophical and legal assumptions and the current political, cultural, sociological and psychological theories relating to the process and effects of mass communication. Required: Graduate standing and major in Communication or instructor's permission.

890V Independent Research or Creative Projects (1-4) Non-thesis projects for majors in Communication supplementing advanced graduate courses. May be repeated. Required: Admission to candidacy for application pending; written proposal of each project approved by the student's committee.

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

940 Seminar in Small Group Communication (3) Research and theory in the process of small group communication and leadership, research procedures, methods for developing skills in small group communication. Required: Comm 801V or equivalent, or basic statistics, or permission. (Same as Sociology 490.)

COUNSELING

AND SPECIAL EDUCATION

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

Counseling and Guidance Programs

Students may begin a program of studies in Counseling and Guidance at any one of three starting times during the course of the year. Once a program is begun, students are expected to pursue the program on a continuous enrollment basis. Full-time study is encouraged; however, provision is made for those unable to devote more than part-time to their program. All students are required to follow a sequence of coursework, whether full or part-time, and must consult their advisor to determine this sequence. Failure to do so could possibly result in a delayed completion date.

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

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

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 are: (1) adherence to Graduate Studies and Department, (2) admission to candidacy and (3) prior to taking the Counseling Practicum or Internship courses. Successful completion of a Counseling Practicum or Internship is required as stated in the Counseling and Guidance Program. Admission requirements and procedures in addition to those applicable to Graduate Studies as a whole, and prospective students are strongly encouraged to contact the Department regarding these admissions requirements and procedures. One such exception from the general Graduate Studies procedures is the different admissions deadlines for Counseling and Guidance.

The last date for completing all requirements for admission to the Department of Counseling and Guidance is April 23 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 their background directors.

NOTE: Non-counseling degree students may obtain an elective option in Affective Humanization Practicum which consists of a 13-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.

Master of Arts

Programs for the Master of Arts degree with a major in counseling and guidance will be determined upon completion of a comprehensive examination. Students who anticipate work on a doctorate are particularly encouraged to consider the M.A. degree.
Master of Science
Specialization in Elementary Counseling

I. Foundation Course
FED 801V Introduction to Research 3 hours

II. Required Counseling Courses (6)
COUN 822M Vocational Decision Making 3 hours
COUN 880V Principles of Guidance 3 hours
COUN 882V Counseling Theories I 1 hour
COUN 891V Counseling Techniques I 1 hour
COUN 831V Counseling Techniques II 1 hour
COUN 911V Organization & Administration of Guidance Services 3 hours
COUN 822V Appraisal Techniques 3 hours
COUN 824V Counseling Practices 3 hours
COUN 825V Advanced Practicum 4 hours
COUN 827V Group Techniques 3 hours

III. Electives (6)
All electives must be pertinent to specialization.
Total: 39 hours

Master of Science
Specialization in College Student Personnel Work

I. Foundation Course
FED 801V Introduction to Research 3 hours

II. Required Counseling Courses (9)
COUN 832MS Counseling Elementary School Students 3 hours
COUN 880V Principles of Guidance 3 hours
COUN 882V Counseling Theories 3 hours
COUN 883V Counseling Theories I 3 hours
COUN 884V Counseling Theories II 3 hours
COUN 822M Vocational Decision Making 3 hours
COUN 827V Group Techniques 3 hours
COUN 824V Counseling Practices 3 hours
COUN 825V Advanced Practicum 4 hours
COUN 827V Group Techniques 3 hours

III. Electives (6)
All electives must be pertinent to specialization.
Total: 39 hours

Master of Science
Counseling with Specialization in Gerontology

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

I. Foundation Course
FED 801V Introduction to Research 3 hours

II. Required Courses in Counseling
COUN 880V Principles of Guidance 3 hours
COUN 884V Counseling Theories 3 hours
COUN 827V Group Techniques 3 hours
COUN 824V Counseling Practices 3 hours
COUN 825V Counseling Theories I 3 hours
COUN 831V Counseling Theories II 3 hours

III. Additional Courses in Counseling selected with advisor's approval and interests.
Total: 39 hours

IV. Gerontology
15-19 hours

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

V. Practicum and Internship
6-7 hours

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

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 will 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 admission to the major. These hours are to include the following courses or their equivalents:
   - SPED 140, Introduction to Communication Disorders
   - SPED 240, Speech Reading and Auditory Training
   - SPED 337, Hearing Disorders
   - SPED 348, Speech Science I: Speech Mechanisms
   - SPED 349, Hearing Science
   - SPED 420, Language Development in Children
   - SPED 430, Articulation Disorders
   - SPED 440, Rhythm and Symbolization
   - SPED 465, Speech Science II: Experimental and Applied Phonetics
   - SPED 466, Communication Disorders in the Elementary and Secondary Schools
   - SPED 410, Basic Clinical Practice in Speech Pathology
   - SPED 475, Language Disorders in Childhood

5. For those students who wish to work toward special state certification in the schools, advisor consultation should be sought early 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. Twenty-four semester hours of coursework and practicum. These hours may be taken from the following:

I. Required Courses:
   - FED 801V, Introduction to Research
   - SPED 810V, Advanced Clinical Practicum in Speech Pathology (Schools)
   - SPED 820V, Advanced Clinical Practicum in Speech Pathology (Experiences)
   - SPED 840V, Diagnostic Methods in Communication Disorders
   - SPED 841V, Advanced Audiology
   - SPED 850V, Seminar in Speech Pathology
   - SPED 855V, Thesis (6 hrs.)

II. Elective Courses:
   Students may choose any of the courses in the area numbered 800V or above.

7. Thesis:
   Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of the committee. Following oral examination, which may include questions of a comprehensive nature over the curriculum as well as the thesis.

Master of Science: Speech Pathology

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

1. Admission to the University of Nebraska at Omaha Graduate College. A raw score of 35 on the MAT is required for initial entrance into the program. A raw score of 35 on the MAT is required for initial entrance into the program unless the student is hearing impaired or a non-native English speaker.

2. To be admitted to the program, the student must:
   a. Meet the University of Nebraska at Omaha Graduate College admission requirements.
   b. Have a minimum of 35 on the MAT.
   c. Meet the Graduate College admission requirements.

3. Students shall complete the following coursework:
   - SPED 810V, Introduction to Research
   - SPED 820V, Advanced Clinical Practicum in Speech Pathology
   - SPED 830V, Advanced Clinical Practicum in Speech Pathology
   - SPED 840V, Diagnostic Methods in Communication Disorders
   - SPED 850V, Seminar in Speech Pathology
   - SPED 855V, Thesis
   - SPED 860V, Special Projects
   - SPED 870V, Seminar in Special Education

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

Master of Science: Teaching the Hearing Impaired Student

The Master of Science degree with a major in teaching the hearing impaired is based on the standards for the certification of a master's degree in education by the State Board of Education of the State of Nebraska. A Nebraska special education certification and a CED professional certificate will be recommended upon satisfactory completion of the program. A Nebraska special education certification and a CED professional certificate will be recommended upon satisfactory completion of the program.

1. Admission to the University of Nebraska at Omaha Graduate College. A raw score of 35 on the MAT is required for initial entrance into the program. A raw score of 35 on the MAT is required for initial entrance into the program unless the student is hearing impaired or a non-native English speaker.

2. Students shall complete the following coursework:
   - SPED 810V, Introduction to Research
   - SPED 820V, Advanced Clinical Practicum in Speech Pathology
   - SPED 830V, Advanced Clinical Practicum in Speech Pathology
   - SPED 840V, Diagnostic Methods in Communication Disorders
   - SPED 850V, Seminar in Speech Pathology
   - SPED 855V, Thesis
   - SPED 860V, Special Projects
   - SPED 870V, Seminar in Special Education

3. The remaining courses will be selected in consultation with the advisor. Students may take all or any portion of the coursework in mental retardation and related courses or may take 15 or 18 hours mental retardation and 6 to 9 hours in a minor area of interest.
1. be admitted to the University of Nebraska Graduate College,
2. have a score of 35 or better on the Miller Analogies Test during 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEO 811V</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>SPED 810M</td>
<td>Language Development and Disorders for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>SPED 826M</td>
<td>Career Development for the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 871M</td>
<td>Interactions Between Professionals and Parents of the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 880M</td>
<td>Emotional Development of Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>SPED 881M</td>
<td>Classroom Techniques for Behavior Control</td>
<td>3</td>
</tr>
<tr>
<td>SPED 882V</td>
<td>Educational Strategies for Emotionally Disturbed Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>SPED 893V</td>
<td>Practicum in Teaching the Emotionally Disturbed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 894V</td>
<td>Advanced Practicum in Teaching the Emotionally Disturbed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 860VA</td>
<td>Introduction to Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 891V</td>
<td>Theory of Assessment and Diagnosis of Learning Deficits</td>
<td>3</td>
</tr>
<tr>
<td>SPED 899V</td>
<td>Thesis (thesis option only)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Master of Science: Resource Teaching and Learning Disabilities**

Resource teaching and learning disabilities is a specialized program designed to prepare the graduate student to identify, diagnostically analyze and teach children who have specific learning disabilities within a multi-disciplinary resource classroom setting. The student must prepare a comprehensive portfolio with a background in learning theory, child growth and development, curriculum development, and methods and techniques of teaching. Upon successful completion of the program and two years of success 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.

Thirty-seven (37) 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 899 Thesis for 6 credit hours or equivalent electives.

**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. obtain a score of 35 or better on the Miller Analogies Test during the completion of a student's first nine (9) hours of coursework,
3. hold a bachelor's degree with a valid teaching certificate from a state education agency or complete the necessary deficiencies to hold certification,
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 hours, learning theory-3 hours, curriculum development-3 hours and student methods courses-6 hours (or equivalent)-3 hours, and
6. maintain at least a "B" in each course of the first twelve hours of coursework.

**Course Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEO 811V</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>SPED 810M</td>
<td>Language Development and Disorders for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>SPED 826M</td>
<td>Career Development for the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 871M</td>
<td>Interactions Between Professionals and Parents of the Handicapped</td>
<td>3</td>
</tr>
<tr>
<td>SPED 880M</td>
<td>Emotional Development of Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>SPED 881M</td>
<td>Classroom Techniques for Behavior Control</td>
<td>3</td>
</tr>
<tr>
<td>SPED 882V</td>
<td>Educational Strategies for Emotionally Disturbed Children and Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>SPED 893V</td>
<td>Practicum in Teaching the Emotionally Disturbed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 894V</td>
<td>Advanced Practicum in Teaching the Emotionally Disturbed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 860VA</td>
<td>Introduction to Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 891V</td>
<td>Theory of Assessment and Diagnosis of Learning Deficits</td>
<td>3</td>
</tr>
<tr>
<td>SPED 899V</td>
<td>Thesis (thesis option only)</td>
<td>6</td>
</tr>
</tbody>
</table>
Counseling and Guidance

487/497M Crisis Intervention and Suicide
disability (3) A course which combines the application
of intervention theory with the treatment of the
extremes of all crises, suicide, along with an overview
of the current community approaches directed
toward resolution of such crises as situational,
developmental/transitional, and natural/mar·
made disasters. Prereq: For 407, senior in teacher
preparation program, human service area, or,
practicum in adult health center. For 807M, graduate
standing.

422/823M Vocational Decision Making
(3) Designed to provide insight into job
choice, work role, work environment and the
professional development of the individual. Includes
information for the achievement of work readiness
through an emphasis on interpersonal and job
related skills. Prereq: Select one course in
Counseling and Guidance.

565M Career Development for the
Handicapped (3) Curriculum oriented for teachers
and professionals who work with the career
development of handicapped individuals. Includes
information for elementary through adult and
school age individuals. Prereq: Senior or Graduate.

498/498M Counseling Skills in Gerontology
(3) This course is intended to help develop
basic counseling skills for application in geron·
ology. Content is centered on the unique needs of
the elderly population.

500V Special Studies in Counseling and
Guidance (1-6) Intensive courses scheduled
as regular seminars or workshops, according to
purpose. Prereq: Permission of director.

801V Teaching Models in Affective Educa·
tion (3) A study of models of teaching in the
affective areas of education; a variety of
teaching models will be explored with special emphasis
on planning and implementing activities, classroom
situations. Prereq: ELED 436 or SEN 408 or permis·
sion of instructor.

802M Alcoholic Treatment Modalities
(3) An examination of alcoholic treatment modalities.
Special attention is given to comparison
with regard to theoretical perspectives, techni·
cues, and effectiveness. Prereq: Graduate
standing in Counseling and Guidance, Social
Work, or Psychology. Graduate students in other
disciplines with prior training or experience
in counseling will be admitted with permission
of the instructor.

810V Research Project in Counseling and
Guidance (1) Individual or group study and
analysis of specific problems/issues in the field
of guidance. Permission of instructor.

824V Vocational Counseling
(3) A study of the counseling process.
Prereq: COUN 820V, 822V.

825V Advanced Counseling Practicum
(3) Clinical counseling and consultation
practical experience dealing with a variety of
students and supervised by a faculty member.
Prereq: COUN 820V, 822V.

826V Internship (2-14) Field work in an
approved guidance program under the supervision of
a qualified counselor and a guidance profes·
sor. Prereq: Permission of the university.

827V Group Techniques in Guidance (2·
3) A study of group counseling techniques.
Prereq: Permission of instructor.

828V Counseling Older Adults (2) Designed
to provide basic information to counselors in work
with older adults. For Counseling and Guidance
Graduates not specializing in the counseling of
the elderly. Prereq: COUN 847V, Principles of
Guidance.

829V Community Involvement for Urban
Counselors (1) A course designed to incorporate
relevant community perspectives into the study
of counselors working with populations facing
social issues. Prereq: Graduate standing.

830V Counseling Techniques I (3) Study
of techniques related to contemporary theories of
counseling. Prereq: To be taken concurrently
with COUN 802V Counseling Theories and
COUN 831V Counseling Theories II.

831V Counseling Techniques II (3) Study
of techniques related to contemporary theories of
counseling. This course is to be taken concur­
taneously with COUN 802V Counseling Theories
and COUN 831V Counseling Theories I.

832V Elementary School Counseling
Practicum I (5) A study of the methods and techniques
applicable in counseling young children.
Prereq: COUN 820V, 831V.

833V Elementary School Counseling
Practicum II (5) A study of the methods and techniques
applicable in counseling young children.
Prereq: COUN 820V, 831V.

834V Elementary School Counseling
Practicum III (5) A study of the methods and techniques
applicable in counseling young children.
Prereq: COUN 820V, 831V.

835V Elementary School Counseling
Practicum IV (5) A study of the methods and techniques
applicable in counseling young children.
Prereq: COUN 820V, 831V.

836V Counseling Internship (1) A course
designed to provide practical work experience
under supervision in various areas in student
professional services. Prereq: Permission of instruc­tor.

837V Practicum in Group Counseling
(3) Field experience in facilitating group coun­
sulting at an approved practicum site. Required as
the third course in the COUN 820V, 822V, 824V
series. Prereq: COUN 820V and permission.

838V Parent Education (3) A study of several
existing Parent Education programs. The stu·
dents develop practical and research skills in
the area of Parent Education. Prereq: Permission
of instructor.

839V Principles of Guidance (3) The intro·
ductive course for students majoring in
Counseling and Guidance. A study of the basic
principles underlying Counseling and Guidance.
Prereq: COUN 820V.

840V Research Project in Counseling
and Guidance (1) This research study is pro·
gressed in the area of guidance and counseling.
Prereq: Permission of instructor.

1060V Research Project in Counseling
and Guidance (3) This research study is for
students in the Human Services field with basic
knowledge of marriage and family counseling.
Prereq: COUN 820V.

1061V Principles of Guidance (3) The intro·
ductive course for students majoring in
Counseling and Guidance. A study of the basic
principles underlying Counseling and Guidance.
Prereq: COUN 820V.
401/501M Child Abuse/Neglect: What You Can Do (3) This course is designed to provide workshops or special seminars in the area of special education or school psychology. Prereq: Determined by the instructor.

402/602M Workshop in Special Education or Speech Pathology (1) The purpose of this course is to provide workshops or related seminars in the area of special education or speech pathology. Prereq: Determined by the instructor.

420/820M History, Education, and Guidance in Hearing Impairment (2) An introduction to the history of hearing impairment and its impact on hearing-impaired individuals. The course will cover the development of the field, educational and social problems associated with hearing impairment, and the education of the hearing impaired. The course will cover the development of educational practices and strategies for hearing impaired students. Prereq: Permission of instructor.

422/522M Teaching of Speech to the Hearing Impaired II (2) A continuation of 421/521M: An introduction to diagnosis of speech disorders, treatment options, and speech pathology. Prereq: Permission of instructor.

423/523M Language Development and Disorders (3) An examination of the nature and structure of language, the acquisition of language, and childhood disorders. This course is designed for undergraduate/graduate students who are teachers or are preparing to be teachers. Prereq: Permission.

433/633M Aural Rehabilitation (3) This course examines the role of the language program and language therapy in the development of language and communication skills. Prereq: Permission of instructor.

435/535M Teaching Content Subjects to the Hearing Impaired (3) Consideration of problems in education of the hearing impaired, approaches to school subjects considered in detail.

437/537M Basic Audiology (3) Study of the various aspects of the auditory system and audiometric testing. Emphasis will be on understanding the effects of hearing on communication. Prereq: For 437, Speech Science 436M. Prereq: For 537, Speech Science 536M.

438/538M Speech Science I: Speech Mechanisms (3) This course is an introduction to speech science and will present anatomy and physiology of the human communication process. The mechanisms of respiration, phonation, and speech articulation are presented from the biological standpoint. The course is designed primarily for students in speech pathology and audiology, education, and those teachers who work with the communication disorders and problems associated with hearing impairment. Prereq: For 438, Spanish 201, 202 or permission of instructor.

439/539M Hearing Science II (3) This course is designed for undergraduate majors in speech pathology and audiology. It will cover the development of educational programs in the field of hearing science. Prereq: For 438, Spanish 201, 202 or permission of instructor.

440/540M Hearing Science III (3) This course is designed for undergraduate majors in speech pathology and audiology. It will cover the development of educational programs in the field of hearing science. Prereq: For 438, Spanish 201, 202 or permission of instructor.

441/541M Hearing Science IV (3) This course is designed for undergraduate majors in speech pathology and audiology. It will cover the development of educational programs in the field of hearing science. Prereq: For 438, Spanish 201, 202 or permission of instructor.

442/542M Teaching of Language to the Deaf I (3) A combination of aural rehabilitation and auditory verbal therapy to develop language and auditory skills. Prereq: Permission.

443/543M Aural Rehabilitation (3) This course examines the role of the language program and language therapy in the development of language and communication skills. Prereq: Permission of instructor.

445/545M Speech Science II: Experimental and Applied Phonetics and Acoustics (3) Analysis of phonetic and phonetic elements in major American English dialects and in various foreign languages. Prereq: IPTECH 201 or permission.

451/551M Basic Clinical Practice in Speech Pathology (4) Minimum of 40 clock hours per credit hour of supervised practice in speech and hearing clinic, speech and hearing evaluation, teaching techniques; interpretation and writing of speech reports, lesson plans, records, and a weekly colloquium. Prereq: For 451, Speech Science 450M. Prereq: For 551, Speech Science 550M. Prereq: For 551, Speech Science 550M.

452/552M Teaching of Language to the Deaf II (3) Continuation of 451/551M: Consideration of criteria for selection and evaluation of programs for individuals with hearing impairments. Prereq: For 451, Speech Science 450M.

453/553M Aural Rehabilitation (3) This course examines the role of the language program and language therapy in the development of language and communication skills. Prereq: Permission of instructor.

465/565M Child Abuse/Neglect: What You Can Do (3) This course is designed to provide workshops or related seminars in the area of special education or speech pathology. Prereq: Permission.

475/575M Childhood Language Disorders (3) This course is designed to cover the various problems involved in language acquisition among exceptional children; and the various methodological techniques of teaching language to exceptional children. Prereq: Speech Science 412/512 or permission.

476/576M Classroom Techniques for Behavioral Control (3) This course will be designed to acquaint the student with a variety of techniques for manag-
581 Advanced Practicum In Teaching Emotionally Disturbed (3) The second semester of participation in a clinical or classroom situation in the field of teaching Emotionally Disturbed children. The course is required for students in the program preparing to teach emotionally disturbed and is open to others who may be interested. Major emphasis is on the development of problem solving skills to be used in the classroom. Prereq: SPED 840.

80V Special Projects (1-3) Seminars, workshops, or independent study on specific topics.

593V Teaching Handicapped Students in the Regular Classroom (3) This is a theory/technique course designed to help regular classroom teachers work with handicapped students placed in their regular classrooms. The emphasis will be on effective teaching techniques and working with students and techniques for communicating with special educators. Prereq: None.

315V Research Projects (3) Individual or group study and analysis of specific problems.

511V Diagnostic and Remedial Instruction for Speech Impaired Individuals (3) Two major goals of the course in reading which will provide the student with information for the diagnosis and remediation of reading disabilities. Prereq: SPED 991 or 992.

521V Speech and Evaluation of Reading (3) A clinic oriented course for advanced graduate students which will pro­

vide an opportunity to learn the diagnostic and treatment of reading disabilities. Prereq: SPED 981 or 982.

185V Clinical Practice in Reading (3) A laboratory oriented course for advanced graduate students which will provide an opportunity to learn the procedures and techniques in the field of special education. Prereq: SPED 80V.

184V Seminar in Pediatrisk Audiology (3) The course is designed for graduate majors in speech pathology, audiology, and education of the hearing impaired. It has a seminar format with periodic individual conferences. Topics covered include behavioral audiology, immittance tests, audiological evaluation procedures, hearing aid tests, amplification problems, habilitation of the hearing impaired, hearing disorders, and treat­

ments, and techniques for evaluating the difficult-to­

test. Prereq: SPED 884V or permission.

140V Learning Disabilities (3) An introduction to specific learning disabilities among children; signs and symptoms, causes, definitions, etiologic factors of learning disabilities; techniques for identification of the problem; therapy techniques for handling children with specific learning disabilities.

842V Advanced Studies in the Disorders of Voice (3) Types and causes of voice disorders; rationale for case selection; clinical examination and evaluation procedures associated with individual involvement.

843V Advanced Studies in the Disorders of Rate and Rhythm (3) Types and causes of speech rate and rhythm disorders; rationale for case selection; survey of theories and therapies; specific characteristics and characteristics associated with individual involvement; practicum.

844V Advanced Studies in the Disorders of Aphasia and Related Problems (3) Types and causes of language and speech disorders; rationale for case selection; speech pathology and therapy techniques associated with individual involvement.

845V Current Practices in Speech Pathology (3) Principles and techniques in the area of current practices in speech pathology. Major emphasis will be on Skinnerian behaviorism. It includes a review of current literature on specific aspects of language development and motor development associated with speech and language disorders.

846V Current Practicums in Communicative Disorders (3) Tests and procedures for diagnosis of communicative disorders; principles in differential diagnosis; development of effective treatment; observation during evaluation periods in speech therapy centers. Prereq: SPED 991 or 992.

847V Cleft Palate (3) This course in speech pathology is designed to prepare graduate and public school speech clinicians. This course is developed as a two-semester practicum where the student will be in a clinic environment with the public school speech clinician.

848V Motor Speech Abnormalities (3) A course for advanced speech pathologists for the study of speech and language problems caused by motor speech disorders. Prereq: SPED 991 or 992.

849V Teaching Severely/Profoundly Handicapped (3) This course will involve an integration of didactic, clinical, and field experiences. The course is designed to prepare the student to be able to plan and conduct integrated special education programs for the severely/profoundly handicapped. It involves a study of the special education, psychological, social, and cultural aspects of working with these children. Prereq: SPED 840 or equivalent.

583V Seminar in Speech Pathology (3) Student selects and investigates three different areas of current concern in speech pathology; identifies gaps in the current literature, prepares an annotated bibliography of resources. Prereq: SPED 895 or permission.

582V Seminar in Communication Disorders (3) This course is designed to prepare students for appropriate responsibilities associated with clinical certification and professional practice in the areas of diagnostic evaluation and remediation of communication disorders. Applications of competence in communication disorders will be evidenced by the completion of an assigned paper and the presentation of it to the class.

855V Alaryngeal Speech (3) This course is designed to prepare graduate students for the study of voice and speech rehabilitation for the laryngectomized patient. This course is designed to prepare the student to be able to plan and conduct integrated special education programs for the severely/profoundly handicapped. It involves a study of the special education, psychological, social, and cultural aspects of working with these children. Prereq: SPED 840 or equivalent.

584V Advanced Audiology (3) This course is designed for graduate students interested in the field of audiology. It is a seminar format with periodic individual conferences and a major project. Topics covered include behavioral audiometry, immittance tests, audiological evaluation procedures, hearing aid tests, amplification problems, habilitation of the hearing impaired, hearing disorders, and treatment techniques. Prereq: SPED 884V or permission.

183V Basic Speech Pragmatics: The Study of Language in Context (3) This course provides an introduction to the study of language in context. It includes an exploration of the nature of language, the study of language in context, and the development of language skills. Prereq: SPED 991 or 992.

186V Advanced Diagnostic Procedures (3) This course is designed to prepare students for appropriate responsibilities associated with clinical certification and professional practice in the areas of diagnostic evaluation and remediation of communication disorders. Applications of competence in communication disorders will be evidenced by the completion of an assigned paper and the presentation of it to the class.

853V Seminar in Pediatrisk Audiology (3) A seminar oriented course for advanced students interested in the field of speech pathology and audiology. It includes a study of the special education, psychological, social, and cultural aspects of working with these children. Prereq: SPED 840 or equivalent.

585V Seminar in Educational Psychology (3) This course is designed to prepare students for appropriate responsibilities associated with clinical certification and professional practice in the areas of diagnostic evaluation and remediation of communication disorders. Applications of competence in communication disorders will be evidenced by the completion of an assigned paper and the presentation of it to the class.
Teaching/Learning Disabilities (3) This course is designed for the professional teacher who is teaching or preparing to teach children with emotional and behavioral disorders. The course will examine the causes and characteristics of a variety of maladaptive behaviors with a view toward identifying the child's needs and the design of educationally therapeutic response systems. Prereq: SPED 840M, 880M, 880M-1.

887V Diagnostic and Remediation Techniques in Early Childhood Education for The Disabled (3) This course deals with the different disciplines used at the Medical Center and presents some of their techniques for assessing the disabled child and also presenting methods that can be utilized in intervention with the developmentally disabled child. (3) Prereq: 886V.

900L Administration and Supervision of Special Education (3) Problems of organization, administration, and supervision of special education programs; finance, federal and state regulations, legislation, litigation, due process, interagency relationships, and accountability. (3) Prereq: 801V or permission. Graduate standing.

919V Theory of Assessment and Diagnosis of Learning Deficits (3) This course introduces the student to a model assessment and diagnosis that describes both the quantitative and qualitative relationship between learning ability and academic achievement. Prereq: SPED 860 and permission. F, S, and D. major, the completion of STEP I: Basic Diagnosis of Learning Deficits.

922V School Practicum in Resource Teaching/Learning Disabilities (3) This course provides the graduate student with either an internship or placement in a school program for teaching the learning disabled or in a resource room setting and at a level commensurate with the student's level of endorsement (pre-school, kindergarten, elementary, middle, and secondary). Prereq: Step I and permission.

906V Advanced Diagnosis of Learning Deficits (4) The purpose of this course is to provide the student with the background and laboratory experiences in the administration and interpretation of a variety of standardized and non-standardized diagnostic procedures and informal diagnostic testing probes. Prereq: SPED 891.

907V Clinical Teaching in Learning Disabilities (3) Theoretical and practical knowledge of the particular kind of teaching which is to take place. The student learns of the techniques and continuous progress grading needed for individually instructed instruction. (F, S, Su) Prereq: SPED 895.

999 Thesis (3-6) Required of all students taking master of arts degree, see major advisor for information. (F, S, Su)

872U Basic Practicum in Special Education (3) A second semester of participation in various clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student. (F, S, Su) Prereq: SPED 871U.

873U Advanced Practicum in Special Education (3) A second semester of participation in various clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student. (F, S, Su) Prereq: SPED 872U.

CRIMINAL JUSTICE Degree Programs

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

Admission Requirements for the Criminal Justice Graduate Program

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

Master of 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 Criminal Justice Administration.

The Counseling Option is especially recommended for administrators or future administrators within the criminal justice system. The Counseling Option is designed for those who wish to work with juvenile and adult offenders.

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

Required Core Courses

801V Seminar in Criminal Justice 9 hours
801Y The Nature of Crime 9 hours
802V Seminar in Administration of Justice 6 hours
803 V Criminal Justice Research Theory and Methodology 12 hours

Elective Criminal Justice Courses

Student selects five (5) courses with advisor approval 15 hours
844V Seminar in Police and Society 9 hours
804V Seminar in Criminal Law 6 hours
805V Seminar in Criminal Law and Procedure 9 hours
806V Seminar in Juvenile Justice 6 hours
807V Seminar in Theoretical Criminology 6 hours
808V Criminal Justice Organization, Administration, and Management 6 hours
811V Criminal Justice Planning and Change 6 hours
812Y Criminal Justice and Professional Ethics 6 hours
813Y Special Problems in Criminal Justice 6 hours
814M Correctional Law 3 hours
850M Community Based Corrections 9 hours
855M Completion and Successful Defense of Thesis 3 hours
860M, 861M, 862M, 863M Comprehensive Examination 9 hours

Master of Science (Public Administration Option)

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

Required Core Courses 9 hours
800V Professional Seminar 9 hours
801V The Nature of Crime 9 hours
802V Seminar in Administration of Justice 9 hours
803 V Criminal Justice Research Theory and Methodology 9 hours

Required Public Administration Courses 12 hours
830V Survey of Public Administration 6 hours
844V Seminar in Organizational Development in Public Agencies 6 hours
845M Public Budgeting 3 hours
894V Seminar in Criminal Justice Administration 3 hours
898V Seminar in Public Financial Administration 3 hours
891M Criminal Justice Personnel Management 3 hours

Elective Cognitive Courses

12 hours
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)
Elective Criminal Justice Courses

830V Seminar in Criminal Justice (student selects five (5) courses with advisor approval) 15 hours

830V Seminar in Police and Society
830V Seminar in Corrections
830V Seminar in the Criminal Court System
830V Seminar in Criminal Law and Procedure
830V Seminar in Juvenile Justice
831V Seminar in Theoretical Criminology
832V Criminal Justice Organization and Administration
831V Criminal Justice Planning and Change
835V Independent Study
832V Special Problems in Criminal Justice
831M Correctional Law
833M Community Based Corrections

Satisfactory completion of the comprehensive examination is also required.

Master of Science (Counseling Option)

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

Required Core Courses

820V Professions in Criminal Justice 9 hours
820V The Nature of Crime
820V Seminar in Administration of Justice
820V Criminal Justice Research Theory and Methodology

Required Counseling Courses

820V Counseling Practice
820V Principles of Guidance

Elective Counseling Courses

In consultation with an advisor the student selects two (2) additional counseling courses. Suggested courses include, but are not limited to the following:

820V Group Counseling Theory and Practice
820M Crisis Intervention/Sociology
820V Counseling Theories

Elective Criminal Justice Courses

In consultation with an advisor the student selects five (5) courses with advisor approval:

860V Seminar in Police and Society
860V Seminar in Corrections
860V Seminar in the Criminal Court System
860V Seminar in Criminal Law and Procedure
860V Seminar in Juvenile Justice
860V Seminar in Theoretical Criminology
860V Criminal Justice Organization and Administration
811V Criminal Justice Planning and Change
815V Independent Study
826V Special Problems in Criminal Justice
831M Correctional Law
833M Community Based Corrections

Satisfactory completion of the comprehensive examination is also required.

Admission to the graduate program in criminal justice

801V The Nature of Crime (3) This course provides an overview of the major dimensions of crime in the U.S. Content areas include the etiology of crime, the costs of crime, and the use of reference materials. Prereq: Graduate standing and permission of instructor.

805V Seminar in Juvenile Justice (3) An inquiry into the social ramifications of the use of juvenile delinquency process including labeling, deterrence, incarceration, and social control. Prereq: Graduate standing and permission of instructor.

809V Seminar in Theoretical Criminology (3) A study of the sociology of crime as a social phenomenon and an objective analysis of the historical influences and thought which molded its development into an accepted contemporary science. Prereq: CJ/SS 330, graduate standing and permission of instructor.

810V Criminal Justice Organization, Administration, and Management (3) This course will deal with issues in the organization and administration of modern justice agencies. The students will be exposed to theories, concepts, and issues related to the administration and organization of justice agencies. Prereq: Completion of the graduate college and permission of instructor.

811V Criminal Justice Planning and Change (3) This course provides an introduction to the basic concepts, theories, and processes in criminal justice planning. Course content includes examination of planning data sources and the application of fiscal planning, manpower planning, and strategic policy planning to criminal justice. Prereq: Graduate standing and permission of instructor.

815V Independent Study (1-3) Individual projects in research, literature review, or creative production which may or may not be an extension of current work. The work will be supervised and evaluated by the departmental faculty member. Prereq: Graduate hours in major department and permission of instructor.

820V Special Problems in Criminal Justice (3) A course devoted to an exploration and analysis of contemporary special problems in the broad spectrum of law enforcement and corrections. Prereq: CJ 310, graduate student and permission of instructor.

599V Master's Thesis (1-6)

DRAMATIC ARTS

The Master of Arts program in Dramatic Arts offers a concentrated study in theatre history, literature, theory, production, and performance. Prereq: A special emphasis in People's Theatre will be given. The overall goal of the program is to enrich the student's understanding of theatre as a humanistic and liberating art, to broaden and deepen the student's knowledge and appreciation of the drama and theatre history, to introduce the student to research in the areas of production and performance, and to strengthen skills and creativity in the arts of theatre production.

The program is broadly flexible and allows each student to design a plan of study that meets individual needs and goals. With four major stage productions and at least two graduate-directed productions each...
Advanced Projects in Dramatic Arts (3-5) Special projects in dramatic arts, requiring regular courses, individual research projects, combined study and practicums. Prereq: 9 hours of dramatic arts in the general area to be studied and permission of the instructor.

Dramatic Arts Children's Theatre Production (3) Study of the methods of direction, design, acting and production of plays for children. Students plan a complete children's theatre production or become actively involved in an actual production. Prereq: Undergraduate minor or major in theatre or permission of the instructor.


Dramatic Arts Practicum (3) A practical, theatre-making and analysis workshop in which students examine theatrical, entertainment, and educational needs in the area and develop theatre projects - plays, workshops, seminars, "events," educational programs using theatrical means for local or regional audiences. Prereq: Consent of instructor and Graduate Program Committee.

Seminar in Play Direction (3) An indepth study of the principles of play direction. Prereq: Graduate standing and permission of instructor.

Technical Theatre Problems (3) Research and dialogue in the aesthetics and physical results of the relationships between dramatic form, theatrical architecture, and scenic design and lighting from historical and contemporary points of view. Prereq: DA 101, 106, 461, 471, 472 or permission of the instructor.

History of People's Theatre to 1960 (3) Examination of historical roots of People's theatre and other popular cultural forms associated with theatre practice. Overview of theatre's 1875 past and significant focus on twentieth-century developments to 1960, especially key periods of 1920's and 1960's. Prereq: DA 471, 472. DA 472 may be taken concurrently.

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

Dramatic Theory and Criticism (3) Important dramatic theories and criticism from antiquity to the present. Prereq: DA 101 or permission of the instructor.

Seminar in Contemporary Theatre Aesthetics (3) Research and dialogue in the aesthetics and physical results of the relationships between dramatic form, theatrical architecture, and scenic design and lighting from historical and contemporary points of view. Prereq: DA 101, 471, 472 and English 215 or permission of the instructor.

Final Project (1-3) Final project for Option II. Prereq: Admission to candidacy and the approval of the project proposal.
Suggested Specializations

I. Economic Theory ................................................. 9 hours
   ECON 825M, Microeconomic Theory .......................... 9 hours
   ECON 822V, Macroeconomic Theory .......................... 9 hours

II. Energy and Environmental Economics ....................... 12 hours
   ECON 828M, Industrial Organization ......................... 6 hours
   ECON 823M, Natural Resource Economics .................... 6 hours

III. Monetary and Financial Economics (select 4 courses) ...... 12 hours
   ECON 860V, Public Finance .................................. 12 hours
   ECON 845M, Monetary Theory and Policy ...................... 12 hours
   ECON 856V, Seminar in Money and Banking .................. 12 hours
   ECON 831M, Banking and Financial Markets .................. 12 hours
   BA 856M, State and Local Finance ............................ 12 hours

IV. International Economics ....................................... 9 hours
   ECON 827M, Seminar in International Economics .......... 9 hours
   ECON 861M, International Trade .................................. 12 hours
   ECON 862M, International Monetary Economics ............ 9 hours
   ECON 866M, International Development ...................... 9 hours
   POLI 510V, Seminar in International Politics ............... 9 hours

V. Urban (Regional) Economics .................................. 12 hours
   ECON 860V, Seminar in Urban Economics .................. 12 hours
   ECON 867V, Seminar in Regional Economics .................. 12 hours
   ECON 896V, Research in Urban/Regional Economics ......... 12 hours
   GEO 610M, Urban Geography .................................. 12 hours
   HIST 841M, American Urban History to 1870 ................. 12 hours
   HIST 842M, American Urban History since 1870 ......... 12 hours
   SOC 814M, Urban Sociology .................................. 12 hours

VI. Electives .................................................................. 9 hours

*In general, all the graduate-level electives. Approved Economics Program Graduate Advisor required.

Core (12 hours)

ECON 800V, Microeconomic Theory .................................. 18 hours
ECON 822V, Macroeconomic Theory .................................. 18 hours
ECON 834M, Quantitative Applications in Economics and Business .......................... 18 hours
ECON 831V, Econometrics ............................................ 18 hours

*Required for students demonstrating satisfactory mathematical skills. In that case, 3 hours to electives.

Suggested Specializations

I. Real Estate and Land Use Economics .......................... 6 hours
   ECON 860V, Real Estate and Land Use Economics .......... 6 hours
   BA 861V, Current Problems in Real Estate ..................... 6 hours

II. All other electives prescribed under the M.S. program. 6 hours
   Electives, include ECON 899V Thesis .......................... 6 hours

*Must be written under the supervision of a member of the REALVE program.

II.15/812M Industrial Organization (1) An analysis of the structure and behavior of industries and the effect on economic performance, prices, and productivity. Prereq: ECON 201 and 202 or permission of instructor.

II.35/830M Quantitative Applications in Economics and Business (3) This course deals with the current state of research in applied econo-

II.51ECON 830V, Microeconomic Theory.......................... 9 hours
II.52ECON 822V, Macroeconomic Theory.......................... 9 hours
II.53ECON 834M, Quantitative Applications in Economics and Business*.......................... 9 hours
II.54ECON 831V, Econometrics ........................................7 hours

*Required for students demonstrating satisfactory mathematical skills. In that case, 3 hours to electives.

Suggested Specializations

I. Real Estate and Land Use Economics .......................... 6 hours
   ECON 860V, Real Estate and Land Use Economics .......... 6 hours
   BA 861V, Current Problems in Real Estate ..................... 6 hours

II. All other electives prescribed under the M.S. program. 6 hours
   Electives, include ECON 899V Thesis .......................... 6 hours

*Must be written under the supervision of a member of the REALVE program.

II.15/812M Industrial Organization (1) An analysis of the structure and behavior of industries and the effect on economic performance, prices, and productivity. Prereq: ECON 201 and 202 or permission of instructor.

II.35/830M Quantitative Applications in Economics and Business (3) This course deals with the current state of research in applied econo-

II.51ECON 830V, Microeconomic Theory.......................... 9 hours
II.52ECON 822V, Macroeconomic Theory.......................... 9 hours
II.53ECON 834M, Quantitative Applications in Economics and Business*.......................... 9 hours
II.54ECON 831V, Econometrics ........................................7 hours

*Required for students demonstrating satisfactory mathematical skills. In that case, 3 hours to electives.

Suggested Specializations

I. Real Estate and Land Use Economics .......................... 6 hours
   ECON 860V, Real Estate and Land Use Economics .......... 6 hours
   BA 861V, Current Problems in Real Estate ..................... 6 hours

II. All other electives prescribed under the M.S. program. 6 hours
   Electives, include ECON 899V Thesis .......................... 6 hours

*Must be written under the supervision of a member of the REALVE program.
EDUCATIONAL ADMINISTRATION AND SUPERVISION

Master of Science

An applicant for admission to the program for the Master of Science degree in educational administration and supervision must be either a master of science degree holder or have completed at least 6 hours of upper division credit in educational administration and supervision. An applicant for admission to the program for the Master of Science degree in educational administration and supervision must have a bachelor's degree from an accredited institution.

An applicant for admission to the program for the Master of Science degree in educational administration and supervision (without endorsement) must hold a bachelor's degree from an accredited institution.

Prior to admission to candidacy, all students must successfully pass the designated qualifying examination.

Students will be designed with the student's needs in mind and will be developed by the student with advice and counsel of a major advisor.

Specialist in Education

An application for admission to the program for the Specialist in Education degree with endorsement in the Department of Educational Administration and Supervision must be completed at either or both the elementary or secondary teaching level and hold a master's degree from an accredited institution.

An application for admission to the program for the Specialist in Education degree (without endorsement) in the Department of Educational Administration and Supervision must be completed at either or both the elementary or secondary teaching level and hold a master's degree from an accredited institution.

These programs of study are designed to best harmonize the student's needs and ambitions. Together with the master's degree, the total program must accumulate to not less than 66 graduate semester hours. The program is carried out under the guidance of a faculty committee in charge of program policy. Prior to admission to candidacy, all students must successfully pass the designated qualifying examination.

Students seeking added endorsements must be pursuing a committee approved program. The assistance of a faculty advisor should be sought at the starting point.

Students in educational administration can earn degrees structured to include coursework leading to appropriate certificates. Also, coursework taken to satisfy requirements for the M.S. and Ed.S. degrees in educational administration normally can be articulated fully into the plan of study for an Ed.D. or Ph.D. degree in administration and supervision offered by the University of Nebraska-Lincoln. Additional information can be obtained from the Chairperson, Educational Administration and Supervision, UNO (624-2271).

886V Seminar in International Economics (3) An analysis of the theory of international trade and the working of the international monetary system. Prereq: Econ 365 or 466 or permission of instructor.

885V Seminar in Urban Economics (3) An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward the problem's favorable solution. (Also listed under geography and sociology.) Prereq: At least 6 hours of upper division coursework in economics or permission of instructor.

887V Seminar in Regional Economics (3) An examination of the current developments and issues involving regional economic problems and planning. These courses present the theoretical basis for understanding and analyzing economic problems of a regional nature. In addition to policy analysis, decision making, and measurement techniques are examined. (Also listed under geography.) Prereq: At least 6 hours at upper division coursework in economics or permission of the instructor.

892-993V Independent Study (Each 1) Guided independent study and research under the direction of one or more instructors in economics and permission of instructor.

899V Thesis (1-6) An independent research project written under the supervision of a graduate advisor in the department of economics. Approval of the topic and the completed project by the student's departmental committee is required. Prereq: Permission of graduate advisor.

865V Seminar in School Business Management (3) An analysis of the school business manager's tasks: planning, programming, budgeting resource allocation, management of funds, purchasing procedures and inventory, administration and protection of property, and administration of transportation.

856V School Finance (3) A study of the sources of school financing, local, state and national. In addition to covering this area from a basic point of view, emphasis is placed on current problems in school finance.

862V Educational Plants and Their Equipment (3) Designed to give the school administrator an understanding of the selection, building construction and design, school furniture and equipment, maintenance and operation, rehabilitation and remodeling, scheduling of work, and custodial care. Prereq: Graduate standing.

876V Administration and Staff Personnel (3) This course deals with personnel policies, problems, and issues in the following areas: teacher recruitment, orientation, evaluation, promotion, tenure, retirement, professional organizations and legal status. Emphasis will be placed upon the techniques of democratic administration.

871V Interpersonal Relationships in Educational Administration (3) This course is designed specifically to deal with interpersonal and group relations. It is useful to both educational administrators and organizations who recognize the need to increase their knowledge and skill in human relations.

888V Administration and Supervision of Vocational Education (3) Basic concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor. (Same as EED 888.)

881V Urban School Administration (3) This course is designed to acquaint students of educational administration with urban problems which must significantly affect the administration of city schools.

911 Field Project in Educational Administration (3) The student has completed the course requirements and the student must make an independent study in a school administration. Emphasis will be placed upon the theory and techniques of administration. Prereq: Admission to Ed.S. program.

901 Advanced Seminar in Educational Administration (3) Participation is limited to individuals who have been admitted to candidacy for the specialist in education degree with a major in school administration. Emphasis will be placed upon the theory and techniques of supervision. Prereq: Admission to Ed.S. program.

902 Collective Bargaining in Education (3) The course is an overview of labor relations in educational settings. Attention will be given to bargaining, methods of negotiations, competency needed, and ratified agreements. Simulations will be used. Prereq: Graduate standing.

911 Field Project in Educational Administration (1-3) The study of a problem in the area of school administration, employing the techniques of research. Prereq: Admission to the Ed.S. program.

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

Master of Arts

To be admitted to graduate study in English, a student should have completed at least eighteen credit hours in undergraduate English courses above the freshman level with an average grade of "B" or above. In addition, the student is required to take either the Miller Analogies Test (MAT) or the general aptitude section of the Graduate Record Exam (GRE).

All candidates for Master of Arts degrees in English are required to take English 801 (Advanced Research) within the first nine hours of graduate study, and to complete at least the following plans of study:

Plan A: Successful completion of 24 credit hours in coursework, including at least 12 hours in 800V-890V level courses, plus a thesis (6 credit hours) on an approved topic, accepted after oral defense before a faculty committee, plus a written examination prepared and judged by a faculty committee.

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

The following English seminars in major periods vary in emphasis and may be repeated for credit.

- **Comparative Literature**: Eng. 893M, Seminar: American Literature.

Note: The English Department offers a Certificate in Course Teaching English as a Second Language.

1. Satisfactory completion of the following four courses:
   - a. Eng. 858M, Introduction to Linguistics
   - b. Eng. 872M, Structure of English

2. For all students except those with a major or teaching field concentration in a foreign language, demonstrated oral and written competence in a second language as certified by the Department of Foreign Languages.

3. For students whose language of nurture is not English, demonstrated oral and written mastery of English as certified by the Department of English.

The certificate in Course Teaching English as a Second Language is in English with courses offered in English with English translations. (Same as French 415/815M and German 415/815M.)

815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels with an emphasis on their cultural and historical antecedents. Prereq. Permission of the instructor. (Same as French 415/815M and German 415/815M.)

817M Contemporary French and German Drama (3) Comparative study of selected contemporary French and German plays. Conducted in English with English translations. (Same as French 417/817M.) Prereq. Permission of the instructor.

818M Chicano Literature and Culture (3) A study of Chicano writers, their works, and Chicano history, with an emphasis on the cultural and historical antecedents. Prereq. Permission. (Same as Spanish 418/818M.)
geography:

Master of Arts

The Master of Arts Degree offered by the Department of Geography requires a minimum of 24 semester hours of approved advanced work in geography or related disciplines, plus 6 semester hours of courses for a total of 30 semester hours.

For the degree of Master of Arts in Geography, one is required to attend General Seminar. The remainder of the program consists of courses studied by the student and the number of course selections made in the preceding work is in V-level courses. All students must pass a written examination prior to undertaking their thesis work.

Admission Requirements

In addition to the requirements of the Graduate College, an applicant for admission to the Master of Arts Degree program must have a 2.5 grade point average in a minimum of 15 undergraduate semester hours of geography including physical and human geography and cartography, plus at least three courses in a specific topic, such as urban geography, cartography, etc. Applicants are further advised to include computer science in their program of study. The applicant must have a GPA in geography of at least 3.0 on a 4.0 scale.

DEGREE REQUIREMENTS

480/801M Conservation of Natural Resources

(3) A study of conservation techniques and problems and their effects on the environment in the United States. Includes philosophical and economic aspects of resource management and the systematic study of traditional conservation methods. Emphasis is placed on physical, economic, and social factors. Prereq: Math 103 or permission.

492/902M Quantitative Methods in Geography

(3) The understanding and appreciation of the quantitative aspects of physical and human geography. Emphasis is placed on the application of statistical techniques to geographical data. Prereq: Math 103 or permission.

493/903M Computer Mapping and Data Analysis

(3) Computer techniques in mapping and analyzing geographical data. Emphasis is placed upon data collection and mapping techniques, surveying, and statistical procedures. Prereq: Math 335, and a course in introductory statistics.

585M Geographic Information Systems

(3) An introduction to data collection and analysis techniques for geographical data. Topics include the use and interpretation of geographical data, and computer techniques for data analysis. Prereq: Math 103 or permission.

585M Historical Geography of the United States

(3) An analysis of historical cartography and the development of geographical and topographical maps. Prereq: Geography 107 or 112.

632/932M Climatology

(3) A study of weather processes and their influence on the earth. Emphasis on the physical and applied aspects of the field. Prereq: Geography 107 or permission.

645/935M Field Methods in Geography and Geology

(3) A systematic investigation of the field techniques of the natural sciences and their application to the study of physical geography. Prereq: Geography 107 or permission.

646/936M Field Methods in Geography and Geology

(3) A systematic investigation of the field techniques of the natural sciences and their application to the study of physical geography. Prereq: Geography 107 or permission.
enptures and Applications (1) is designed for the student majoring in environmental planning. The emphasis of the course is on non-photographic sensors and especially digital processing of multispectral satellite data. The applications are multidisciplinary in nature. Prereq: Geog 491/893M.

865V Land Use (3) A course designed to understand the critical issue of land use, patterns of urban areas through the comprehensive analysis of social, physical, and economic factors which shape the land use of a given place. The major emphasis will be placed upon field investigations in the urban area, with the functional region receiving the major consideration. Prereq: Geog 415/810M.

867V Cartographic Methods (3) Teaches effective map layout and the latest cartographic techniques, leading to a high level of competence in the design and interpretation of maps.

871V Population Seminar (1) The significance of population trends to place in the number, kind, and quality of human inhabitants and changes through time. Prereq: Permission. (Same as Soc. 871V.)

890V Internship in Environmental/Regional Planning (1-6, repeatable up to 6 hours) Internship with local planning agencies enabling students to gain knowledge and experience in comprehensive regional or environmental planning. Requires 12 hours graduate credit in geography.

891V Seminar in Metropolitan Planning (1) A survey of metropolitan planning with special emphasis on the planning process and current problems encountered by planning officials. Prereq: Permission. (Same as Econ. 891V.)

883V/884V Interdisciplinary Seminar on the Urban Community (1-6) An interdisciplinary course on the metropolitan community in which various urban and college offerings concerned with urban problems are presented on a broad and broadened focus. Prereq: Permission. (Same as Soc. 871V.)

955 Topics in Regional Geomorphology (1) A study of regional processes and their relationships in the context of North America and the world. Prereq: Geog 463/863M. (Peck: Permission)

494V Aging and Human Behavior (3) A course taking different kinds of behavior and the changes which may occur in older age. Applicatons of various personality theories concerning aging will be considered. Prereq: 3 hrs. of history or permission.

498V Comparative Gerontology (3) The study of aging around the world by a comparison of cultural and societal differences in a national framework. An explanation of some practical experiences in aging in Europe, Asia, and Africa will be examined. Prereq: Three hours of gerontology or permission.

450V/550M Administrative and Legal Concerns of the Elderly (3) Consideration of the legal concerns which are likely to arise in the administration of the aged. Includes introduction to American legal system, emphasis on understanding legal concepts and cases that pertain to older persons. Prereq: Gero 411/811, Applied Social Gerontology.

452V/552M Mental Health and Aging (3) An examination of mental health problems that are encountered among the elderly. Prereq: Permission.

455V/555M Health Aspects of Aging (3) The study of physical, psychological, and sociological aspects of aging in the context of the geriatric patient. Prereq: Permission.

467V/867V Programs and Services for the Elderly (3) A study of the various programs and services designed for the elderly. Prereq: Permission.

469V/869M Working with Minority Elders (3) The course presents the reader with a multidisciplinary perspective, designed to provide the student with an understanding of the micro and macro differences of the elderly within four major minority groups and to examine various services available to these populations in terms of their relevance and effectiveness, as well as the need for meeting the needs of the elderly. Prereq: 3 hrs. of history or permission. (Same as Soc. 469M.)

475V/875M Mid-Life, Career Change, and Pre-retirement (3) An examination of mid life as it applies to the concept of career change, existing resources, and the future of self-employment and career change.
HEALTH, PHYSICAL EDUCATION, AND RECREATION

The School of Health, Physical Education, and Recreation offers graduate courses in the areas of health education, physical education, and recreation/leisure studies. It is possible to attain either a Master of Arts or the Master of Science degree with a major in one of the following areas: health education, physical education, or recreation/leisure studies.

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

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 800V</td>
<td>Research in HPER</td>
<td>6</td>
</tr>
<tr>
<td>HPER 822V</td>
<td>Problems and Issues in HPER</td>
<td>6</td>
</tr>
</tbody>
</table>

Specialization Courses

(Specific courses will be selected from the following according to area of emphasis and consultation with an advisor.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 800V</td>
<td>Special Studies</td>
<td>6</td>
</tr>
<tr>
<td>HPER 810V</td>
<td>Research Project</td>
<td></td>
</tr>
<tr>
<td>HED 855V</td>
<td>Health Aspects of Aging</td>
<td></td>
</tr>
<tr>
<td>HED 855V</td>
<td>Health Aspects of Aging</td>
<td></td>
</tr>
<tr>
<td>HED 895Q</td>
<td>Alcohol Education</td>
<td></td>
</tr>
<tr>
<td>PE 801M</td>
<td>Laboratory Practicum in Exercise Science</td>
<td></td>
</tr>
<tr>
<td>PE 802M</td>
<td>Measurement and Evaluation in Physical Education</td>
<td></td>
</tr>
<tr>
<td>RED 854M</td>
<td>Topics of Sports Medicine</td>
<td></td>
</tr>
<tr>
<td>PE 824V</td>
<td>Sport in American Culture</td>
<td></td>
</tr>
<tr>
<td>PE 837V</td>
<td>Curriculum in Physical Education</td>
<td></td>
</tr>
<tr>
<td>PE 840V</td>
<td>Motor Learning and Performance</td>
<td></td>
</tr>
<tr>
<td>PE 899V</td>
<td>Kinesiological Analysis of Motor Skills</td>
<td></td>
</tr>
<tr>
<td>RED 820M</td>
<td>Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>RED 850M</td>
<td>Organization &amp; Administration of Recreation</td>
<td></td>
</tr>
<tr>
<td>RED 851M</td>
<td>Recreation Programming</td>
<td></td>
</tr>
<tr>
<td>RED 852M</td>
<td>Recreation for the MI &amp; MR</td>
<td></td>
</tr>
<tr>
<td>RED 853M</td>
<td>Therapeutic Recreation: Activity Analysis</td>
<td></td>
</tr>
<tr>
<td>RED 854M</td>
<td>Therapeutic Recreation: Delivery Models</td>
<td></td>
</tr>
<tr>
<td>RED 841V</td>
<td>Outdoor Recreation Resource Planning</td>
<td></td>
</tr>
</tbody>
</table>

Elective Courses

Related courses from outside the School of HPER, approved by the advisor, may be taken as needed to bring the courses in the student's program to a minimum of 36 semester hours.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 800V</td>
<td>Research in HPER</td>
<td>6</td>
</tr>
<tr>
<td>HPER 822V</td>
<td>Problems and Issues in HPER</td>
<td>6</td>
</tr>
</tbody>
</table>

Specialization Courses

(Specific courses will be selected from the following according to area of emphasis and consultation with an advisor.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 800V</td>
<td>Special Studies</td>
<td>6</td>
</tr>
<tr>
<td>HPER 810V</td>
<td>Research Project</td>
<td></td>
</tr>
<tr>
<td>HED 855V</td>
<td>Health Aspects of Aging</td>
<td></td>
</tr>
<tr>
<td>HED 855V</td>
<td>Health Aspects of Aging</td>
<td></td>
</tr>
<tr>
<td>HED 895Q</td>
<td>Alcohol Education</td>
<td></td>
</tr>
<tr>
<td>PE 801M</td>
<td>Laboratory Practicum in Exercise Science</td>
<td></td>
</tr>
<tr>
<td>PE 802M</td>
<td>Measurement and Evaluation in Physical Education</td>
<td></td>
</tr>
<tr>
<td>RED 854M</td>
<td>Topics of Sports Medicine</td>
<td></td>
</tr>
<tr>
<td>PE 824V</td>
<td>Sport in American Culture</td>
<td></td>
</tr>
<tr>
<td>PE 837V</td>
<td>Curriculum in Physical Education</td>
<td></td>
</tr>
<tr>
<td>PE 840V</td>
<td>Motor Learning and Performance</td>
<td></td>
</tr>
<tr>
<td>PE 899V</td>
<td>Kinesiological Analysis of Motor Skills</td>
<td></td>
</tr>
<tr>
<td>RED 820M</td>
<td>Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>RED 850M</td>
<td>Organization &amp; Administration of Recreation</td>
<td></td>
</tr>
<tr>
<td>RED 851M</td>
<td>Recreation Programming</td>
<td></td>
</tr>
<tr>
<td>RED 852M</td>
<td>Recreation for the MI &amp; MR</td>
<td></td>
</tr>
<tr>
<td>RED 853M</td>
<td>Therapeutic Recreation: Activity Analysis</td>
<td></td>
</tr>
<tr>
<td>RED 854M</td>
<td>Therapeutic Recreation: Delivery Models</td>
<td></td>
</tr>
<tr>
<td>RED 841V</td>
<td>Outdoor Recreation Resource Planning</td>
<td></td>
</tr>
</tbody>
</table>

Thesis Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 899V</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Elective Courses

Related courses from outside the School of HPER, approved by the advisor, may be taken as needed to bring the courses in the student's program to a minimum of 36 semester hours.

General HPER

800V Special Studies (1-3) A series of intensive courses — scheduled as regular seminars or workshops, according to purpose. Prerequisite: Permission of department.

800V Research in Health, Physical Education and Recreation (3) An introduction to the nature and significance of research in HPER. Prerequisite: permission of instructor.

800V Research in Physical Education (3) A study of the problems associated with alcohol use and misuse. The patterns and trends of use, theories of dependence, physiological and psychological aspects and health consequences are explored. Prerequisite: permission of instructor.

810V Research Project (1-3) Individual or group study and analysis of specific problems in health, physical education or recreation. Prerequisite: Permission of instructor.

822V Problems and Issues in HPER (3) An examination of current issues and problems in the field that relate to the general aims and purposes of HPER. Prerequisite: Graduate student status.

830V Analysis of Research and Literature in HPER (3) (Concepts and techniques of analysis of research and literature in HPER for the purpose of orienting the student to possible areas of research and developing an understanding of and appreciation for trends in HPER.

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

Health Education

455/655M Health Aspects of Aging (3) The study of psychological, sociological, and physiological factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders. Prerequisite: Graduate standing.

450V Alcohol Dependency Workshop for Educators (1) A concentrated look at problems which arise from teenage misuse of alcohol in the high school. Emphasis will be given to the identification of students with alcohol-related problems; the effect of alcohol on the individual and the family unit; and the role of the school in intervention and referral. Prerequisites: Admission to Graduate College.

451V Human Sexuality (3) This graduate level course is aimed at providing an overview of the current scientific knowledge concerning human sexuality. The course is designed to be inter-disciplinary in nature, providing the biological, behavioral, and psychological aspects of human sexuality. Priority will be given to students from the helping professions. Qualified students from other related disciplines must have permission of the instructor.

533V Alcohol Education for Personnel (3) A study of the problems associated with alcohol use and misuse. The patterns and trends of use, theories of dependence, physiological and psychological aspects and health consequences are explored. Emphasis is given to the identification of students with alcohol-related problems and the role of the school in alcohol prevention, education, intervention, and referral. This course is designed primarily for public school personnel.

Physical Education

24V Sport in American Culture (3) The course is to instill the values and the ways in which they influence people in America.

56V Supervision of Physical Education (3) Survey of research and techniques of supervision for use by supervisors and teachers in the construction and supervision of physical education programs.

58V 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.

57V Improvement of Instruction in Physical Education (3) An examination of current educational research in physical education. Emphasis is on the improvement of the individual's teaching in the physical education setting.

54V Motor Learning and Performance (3) A study of the conditions and factors which influence the learning and performance of motor skills. Prerequisites: permission of instructor.

64V Cinematological Analysis of Motor Skills (3) An investigation of the biomechanical basis of motor performance. Includes a descriptive analysis of sports skills and fundamental movement patterns and an examination of techniques for collecting biomechanical data.

401/501M Laboratory Practicum in Exercise Science (3) This practicum will provide students with an opportunity to achieve competency.
and some areas. Thus, the course covers selected topics in human physiology and physical education. The course includes: analyses of research techniques and particular emphasis on the examination of student performance and the development of physical education concepts to physical conditioning.

496/596 Topics in Sports Medicine

This course covers selected topics in sports medicine, including sports participation, injury prevention, rehabilitation, and aging. The course includes: analyses of research techniques and particular emphasis on the examination of student performance and the development of physical education concepts to physical conditioning.

Recreation/Lessure Studies

424/624 Organization and Administration of Recreation (3) Designed to provide a comprehensive recreation and special situation to the student's program and academic interests. The chairperson of the advisory committee and the representative of the minor field may be members of the Graduate Faculty.

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

1. Early in the student's program, when his or her program is complete, the student must make arrangements with his or her advisor to take the comprehensive written examination. The examination will be given three times during the year: during the eleventh week of the fall semester, during the spring semester, and during the summer of the first summer session.

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

3. If the major area of study is American history, the examination will be comprehensive, divided into two three-hour segments, with the breaking point for the two segments occurring during the breaking point of the American history survey (History 111-112) course. The minor portion of the examination will be over the specific minor courses taken, and will be of three-hour duration.

4. If the candidate offers an outside minor, the minor department and advisor will be responsible for the examination.
Master of Science

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

a. Earn a total of 36 credits, of which 24 must be in mathematics.

b. Choose Mathematics courses that carry a number of 800M or above and at least 18 credit hours that carry a number of 800N or above.

c. Maintain a "B" average in all of his or her work with no grade lower than "C," and no more than two grades of "C."  

d. Pass a written comprehensive examination.

e. If a student wishes, they may take up to 12 hours of graduate work in Physics or Computer Science.

All non-mathematics courses that are taken as part of a degree program must be 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 of above.

Mathematics

Admission Requirements for Master of Arts

A student meeting the following two 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 coursework including at least two courses beyond elementary calculus.

The above conditions are considered tentative and a student not meeting them may be admitted to the program only as a result of special action by the M.A.T. program committee.

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

To obtain the M.A.T. degree, the student must:

a. Earn a total of 36 credits, of which 24 must be in mathematics.

b. Include in his program mathematics courses 800T, 801T, 802T, 803T, and 805T. Mathematics courses 800T and 803T may be waived if the equivalent undergraduate courses have been taken.

c. Include in his program secondary education courses 850V, 851V, and 855V, and at least one additional above.

d. As listed under the Master of Science above.

e. As listed under the Master of Science above.

Computer Science

311/811 Information Systems Analysis (3) Decision-making processes, system life cycle, and methodology for design of information systems. Prerequisites: CS 235.

312/812 System Design and Implementation (3) Study of software production and implementation of information systems. System design, implementation, and evaluation. Prerequisites: CS 235.

321/821 Advanced Programming Techniques (3) The study of software production and implementation of information systems. System design, implementation, and evaluation. Prerequisite: CS 235.


422/822M Programming Languages (3) Definition of programming languages. Global properties of programming languages and their impact on the computer. Prerequisite: Math 416 or Math 430.

423/830M Linear Programming (3) Theory and applications of linear optimization. Modeling and formulation of linear optimization problems, the simplex method, duality, and sensitivity analysis. Prerequisite: Math 365.


435/835M Computer Architecture (3) Basic concepts and applications of computer architecture to digital computer design. Prerequisite: Math 365.


460/860M Compiler Construction (3) The development of compilers for high-level programming languages. Prerequisite: Math 365.

451/315M Advanced Topics in Operating Systems (3) Advanced topics in operating systems design and implementation. Prerequisite: Math 365.

471/871M Operating System Design and Implementation (3) Operating system design and implementation. Prerequisite: Math 365.

481/881M Advanced Numerical Methods (3) Advanced numerical methods, including the solution of linear and nonlinear systems of equations, interpolation, numerical integration, and numerical differentiation. Prerequisite: Math 365.

496/896M Thesis (3) Thesis hour. Prerequisite: Permission of instructor and graduate committee.

499/899M Independent Study (1-3) Independent study and research. Prerequisites: Permission of instructor and graduate committee.

Mathematics

311/811 Differential Equations (3) Methods of solving ordinary differential equations, with applications to geometry and physics. Linear differential equations are emphasized. Prerequisites: Math 196. It is further recommended that the student has taken Math 197 or treats concurrently.

325/825 Introduction to Analysis (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include the real number system, topology of the real line, limits, functions, continuity, differentiation, integration, and power series. Prerequisites: Math 196.

325/825J Calculus of Vector Functions (3) Vector functions, line and surface integrals, gradient, divergence, curl, Green's Theorem, Stoke's Theorem, Gauss' theorem, Jacobian matrices, inverse and implicit functions, partial derivatives, and algebra of vector function operators with applications. Prerequisites: Math 197 and either Math 205 or Math 305.

356/850J Selected Topics in Mathematics (1-4) This is a variable content course with selected topics in the mathematical sciences which relate to the interest of students in other disciplines such as mathematics education, psychology, and business. The course may be taken more than once for credit provided topics differ, with a maximum credit of 9 hours. Mathematics majors should consult with their advisor for topics that satisfy major requirements. Math 850J does not apply to M.A. or M.S. in mathematics. Prereq: Permission of instructor.


365/865J Stochastic Modeling (3) Examination and construction of probabilistic models for queueing, inventory and simulation. Same as CS 865J. Prereq: Math/CS 205 and probability/statistics.

376/870J Introduction to Modern Algebra (3) An introduction to abstract algebra to include: groups, rings, and fields. Examples and elementary proofs will be discussed. Prereq: Math 201 and Math 203.

411-412/811M-812M Abstract Algebra (Each 3) An advanced undergraduate (beginning graduate) course in abstract algebra to include: groups and the Sylow theorems, rings and ideals, fields and Galois theory. Prereq: Math 370 or permission required for Math 811M; Math 370 and Math 811M required for Math 812M.

423/823M Mathematical Analysis (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, completeness, sequences and series of functions, uniform convergence, improper integrals. Prereq: Math 335 and Math 336 or equivalent.

424/824M Mathematical Analysis II (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, completeness, sequences and series of functions, uniform convergence, improper integrals. Prereq: Math 335 and Math 336 or equivalent.

427/827M Complex Variables (3) Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus, applications. Prereq: Math 203 or advanced calculus.


432/832M Linear Programming (3) Theory of simplex method, obtaining of initial basic feasible solution, unbounded and infeasible problems, duality quality, sensitivity analysis, implementation of a commercial LP package, transportation and assignment problems, integer programming techniques. Same as CS 830M, Prereq: Math/CS 205 or Math 335. or one of CS 162, 160 or 162. Prereq: Math 335 or equivalent.


434/834M Fourier Series, Boundary Value Problems (3) Solution of boundary problems, boundary value problems, Sturm-Liouville systems, Fourier series. Prereq: Math 311 or permission of the instructor.

451/851M Theory of Numbers (3) Provides a theoretical foundation for the concepts of number theory. Prereq: Math 370 or Math 201 or permission of instructor.

461/861M Elements of Graph Theory (3) Sets and functions, metric spaces, topological spaces, continuous functions, and space products and topology. Prereq: Math 311 or permission of the instructor.

502T Topics in Geometry and Topology (3) Selections from the following topics: Straight line geometry, projective geometry, non-Euclidean geometry, topology of the plane, planar topologies, topology of the plane, dimension theory, Prereq: Math 311 or permission of instructor.

504T Topics in Computer Science (3) An introduction to computer science and programming techniques. Brief history of the development of computing, a survey of the applications of computers, and the implications of the use of computers in education. Prereq: Math 311 or permission of instructor.

525/825V Partial Differential Equations (3) Linear and nonlinear first order ordinary differential equations, hyperbolic equations, and boundary value problems. Prereq: Math 423 and 311 or equivalent.
2. Performance Program of Study

Applied Music

Music History, Conducting or Pedagogy

Music Electives (A portion or all of these hours may be selected in related subject fields or outside music.)

Total: 30

800M Special Studies in Music

Pre-requisite: Permission of instructor. Students who are unable to come to terms with a particular musical style or movement will be assigned to study at the bachelor’s level or in the graduate program. Pre-requisite: Permission of instructor.

44/454M Twentieth Century Styles

This course is intended for students who are interested in the history and practice of music in the 20th century. Pre-requisite: Music 255, 256, 257, and graduate standing.

45/465M Baroque Literature

This course is intended for students who wish to undertake a comprehensive survey of the music of the 17th and 18th centuries, with particular attention to the literature of Bach, Handel, and Vivaldi. Pre-requisite: Music 255, 256, and graduate standing.

45/466M Piano Pedagogy

This course is designed for piano majors and private music teachers who wish to become more knowledgeable about the teaching of piano. Pre-requisite: Music 255 and permission of instructor.

46/467M Vocal Music

This course is intended for students who wish to undertake a comprehensive survey of the music of the 17th and 18th centuries, with particular attention to the literature of Bach, Handel, and Vivaldi. Pre-requisite: Music 255, 256, and graduate standing.

45/468M Music in the Twentieth Century

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/468M Music in the Twentieth Century

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/469M Instrumental Pedagogy

This course is designed for students who wish to become more knowledgeable about the teaching of instrumental music. Pre-requisite: Music 255 and permission of instructor.

46/469M Conducting

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/470M Research in the Lyric Theater

This course will consist of a seminar in music theater studies, with a focus on the operatic repertoire. Pre-requisite: Music 255 and permission of instructor.

45/471M Baroque Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/472M Baroque Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/473M Keyboard Literature

This course will study and analyze major keyboard works from the Baroque period to the early-mid 20th century, including works by J.S. Bach, Scarlatti, Mozart, Beethoven, and other major composers. Pre-requisite: Permission of instructor.

46/474M Advanced Organ Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/475M Applied Music

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/476M Vocal Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/477M Choral Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/478M Conducting

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/479M Advanced Choral Conducting

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/480M Advanced Instrumental Conducting

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/481M Advanced String Orchestra Conducting

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/482M Advanced Wind Ensemble Conducting

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/483M Advanced Percussion

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/484M Advanced Harp

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/485M Analytical Techniques

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/486M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/487M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/488M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/489M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/490M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/491M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/492M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/493M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/494M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/495M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/496M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/497M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/498M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/499M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.

46/500M Advanced Literature

This course is intended for students who wish to undertake a comprehensive survey of music from the post-war period to the present. Pre-requisite: Music 255, 256, and graduate standing.
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 their equivalent as determined by the departmental Graduate Admissions Committee. For unconditional admission the applicant must have a 3.5 point average in undergraduate political science coursework and must satisfy the Graduate College GRE requirements. In addition, the department requires two letters of recommendations. Master's applicants are in a position to evaluate the applicant's potential for graduate studies before an applicant can be considered for unconditional admission.

Degree Requirements: The program is intended for those who expect to pursue a doctoral degree. The student must satisfactorily complete thirty semester hours, twenty-four hours of coursework and six hours of thesis supervision. Students must maintain a B (3.0) average in their coursework, receiving no more than one C. The thesis is 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 thesis hours will be taken in one and only one of the four subfields. 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 V level, including 898V (Thesis) and 899V (Thesis). There will be written comprehensive examinations in the two emphasized fields and an oral defense of the thesis.

Master of Arts

Degree Requirements: This advanced non-thesis program is specifically designed to enhance candidates to work in the public service, education and business fields. Thirty-six hours are required, of which thirty must be earned at the V level, including 800V (Research Methods) and 812M (Junion Standing). Of the twenty-four hours of coursework twelve must be at the V level, including 800V (Research Methods) and 812M (Junior Standing). The remaining coursework is elective and may include 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 career interests.

403/803M The Presidency (3) The rise of the institution from Washington to the present, to its present position and prestige it holds and how the president uses this power and prestige to influence Congress, interest groups, and the public. Prereq: For 403, Political Science 110 and junior standing.

410/810M The Legislative Process (3) A comprehensive study of the legislative process of the Congress and state legislatures. The major emphasis is on legislative institutions, processes and behavior. Prereq: For 404, Political Science 110 and junior standing.

405/805M The Judicial Process (3) This is a course in the administration of justice. It examines the nature of the state courts with respect to their powers, judicial selection, the bar, and the reform movements, including the most basic of all man's objections, the pursuit of justice. Prereq: For 405, Political Science 110 and junior standing.

412/812M Public Opinion and Political Behavior (3) An analysis of the processes of political opinion formation and change, and the relationship between public opinion and democratic political processes. The study involves the operation of the political system. Prereq: For 810M, junior standing.


418/818M Constitutional Law: The Federal System (3) Analytical examination of American constitutional law regarding the relations of national and state (Federalism) and the powers of the national government (Judicial, Congressional and Executive).

419/819M Constitutional Law: Civil Liberties (3) The development of American constitutional law as it pertains to civil liberties. Emphasis on 1st, 4th, 5th, 6th, 8th, 10th, 13th, 14th, and 15th. Prereq: For 817M.

420/820M International Politics of Asia (3) Analysis of contemporary politics as it relates to each of the major areas, with emphasis on those areas which influence the international system of Asia. Prereq: For 420, junior standing.

421/821M Foreign Policy of the U.S.S.R. (3) A study of the foreign policy of the U.S.S.R. with emphasis on developments since 1945. Internal and external influences on Soviet foreign policy, the processes of foreign policymaking and the relationships among members of the communist camp are also considered. Prereq: For 421, junior standing.

422/822M Inter-American Politics (3) Analysis of the role of Latin American states in international politics. Emphasis placed on the political and ideological environment, power relations, policies, and contemporary problems. Prereq: For 422, junior standing.

431/831M Political Theory I (3) An examination of political theories of Western men who began in Pol Sci 431, the study of the history of political thought, and the study of the Western tradition in its historical context. Prereq: For 431, junior standing.

432/832M Political Theory II (3) Continues the review and analysis of the leading political theories of Western men in their historical context. Prereq: For 432 and 431 (Political Theory I and II), bringing the study down to the present day. Prereq: For 433, junior standing.

435/835M Democracy (3) A study of political theory, practice and practitioners of democratic theory, from its development, present application and problems of the future. Prereq: For 435, junior standing.

436/836M Dictatorship (3) A basic study of political theory, practice and practitioners of political dictatorship as an alternative to democracy, with emphasis on the application of theory and their impact on practitioners of political dictatorship. Prereq: For 436, junior standing.

437/837M Communism (3) An examination of the Marxist theories of the total organization of society as a working unit of the total economy, society and state. Prereq: For 437, junior standing.

438/838M The European Union (3) A study of the European Union in its institutional and political context. Prereq: For 438, junior standing.

502M Politics in France (3) An examination of the political parties and movements in the context of the French political system, contemporary political institutions and problems, and political and policy responses to these problems. Prereq: For 502M.

492/892M Topics in Political Science (3) An examination of a specific set of ideas or topics based upon advanced primary source materials. Prereq: For 492, junior standing.

498M Seminar in the Research Methods of Political Science (3) An introduction to the methods of data collection and analysis for political inquiry. Prereq: Permission of the graduate advisor. Also listed under public administration.

499M Seminar in American Government and Politics (3) A thorough analysis of selected aspects of our political system with emphasis on individual research projects. Prereq: Permission of the graduate advisor.

815V Seminar in Public Law (3) Practical methods of research as applied to selected problems in the areas of administrative, constitutional, and/or international law. Such problems will correspond to those encountered by government, business, and others in their professional work. Prereq: Permission of the graduate advisor.

820V Seminar in International Politics (3) An examination of the theoretical foundations of international relations, with application to particular problems in international relations. Prereq: Permission of graduate advisor.

825V Seminar in Political Theory (3) An examination of the types of thought and literature of the field of comparative politics. Prereq: Per mission of the graduate advisor.

852M Politics in France (3) An examination of the political parties and movements in the context of the French political system, contemporary political institutions and problems, and political and policy responses to these problems. Prereq: For 502M.
890V Readings in Political Science (3) Specialized and organized reading in political science for the graduate student who encounters scheduling problems in the completion of his degree program or who has special preparatory needs and who is advised by the political science departmental advisor. Permission of instructor required.

899 Thesis (3/4) A research project, written under the supervision of a graduate advisor in the Department of Political Science, in which the student establishes his capabilities and conduct, and complete an independent, scholarly investigation of a research topic and the compiled project. Permission of the student's departmental advisor. Permission of graduate advisor.

PROFESSIONAL ACCOUNTING

Objectives of the MPA Program
The primary objective of the Master of Professional Accounting degree program is to provide a graduate level educational experience as a basis for a career in professional accounting. Students with a broad based preparation for individuals seeking careers in public or private, or not-for-profit path may pursue some specialization. The MPA program is designed for students with aspirations and a high level preparation to those who have an interest in the accounting discipline while providing an extensive understanding of the foundation for a career in a professional subject to rapid changes. The program provides an opportunity to meet the needs of an educational background required for the following professional examinations: Certified Public Accountant (CPA), Chartered Financial Analyst (CFA), and Certified Internal Auditor (CIA).

Program of Study
The first year of the MPA program focuses on the Common Body of Knowledge as defined by the courses may be waived without satisfactory evidence of foundation courses in accounting and the supporting disciplines. In consultation with the advisor, electives may be selected to meet a student's 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 Management Admission Test (GMAT) prior to admission to the program. Although the minimum GMAT score is 540 (Upper Division GPA - 3.90), evidence of ability to speak and write the English language, and a satisfactory undergraduate degree must have been received from an accredited institution.

Foundation Courses* (36 total semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acc 810H</td>
<td>Survey of Accounting</td>
</tr>
<tr>
<td>Acc 302</td>
<td>Tax Accounting</td>
</tr>
<tr>
<td>Acc 392</td>
<td>Intermediate II</td>
</tr>
<tr>
<td>Acc 304</td>
<td>Cost Accounting</td>
</tr>
<tr>
<td>Acc 408</td>
<td>Principles of Auditing</td>
</tr>
</tbody>
</table>

Note: Some or all of these courses may be waived based upon evidence of satisfactory undergraduate preparation or equivalent experience.

Master of Professional Accounting* (36 total hour minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acc 821V</td>
<td>Accounting Theory</td>
</tr>
<tr>
<td>Acc 825V</td>
<td>Seminar in Accounting</td>
</tr>
</tbody>
</table>

Required Accounting Courses (9 hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acc 801M</td>
<td>Advanced Accounting</td>
</tr>
<tr>
<td>Acc 803M</td>
<td>Financial &amp; Partnerships</td>
</tr>
<tr>
<td>Acc 809M</td>
<td>Financial Auditing</td>
</tr>
<tr>
<td>Acc 825V</td>
<td>Federal Estate &amp; Gift Taxation</td>
</tr>
</tbody>
</table>

Required Tool Courses (12 hrs.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 800V</td>
<td>Quantitative Analysis</td>
</tr>
<tr>
<td>BA 810V</td>
<td>Managerial Economics</td>
</tr>
<tr>
<td>BA 880V</td>
<td>Policy, Planning &amp; Strategy</td>
</tr>
</tbody>
</table>

Other Electives (6 hrs.)

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

Other Requirements
1. A maximum of 8 hours of "M" 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. Students with adequate prior preparation. In the second year, students are subject to all policies and procedures of the Graduate College.
3. Students must earn a minimum grade of "B" in BA 880 to successfully complete the course as a graduation requirement. *All courses are three semester hours.

481/501M Advanced Accounting (3) A study of advanced topics in the field of accounting, including consolidated statements, and partnerships, and the application of accounting techniques to the planning and control processes, auditing, and foreign operations. Prereq: Acc 303, Intermediate Accounting.


489/609M Financial Auditing (3) Provides an in-depth coverage of the professional and legal aspects of auditing as performed by independent public accountants. Audit techniques, standards, and reporting obligations will be emphasized. Prereq: Acc 408.

525V Seminar in Accounting (3) A study of a specific area within the accounting discipline. Possible areas include: auditing, financial, managerial, systems and tax. May be repeated to a maximum of nine (9) hours. Prereq: Admission to the Masters of Professional Accounting Program and permission.

526V Tax Research and Planning (3) This course is designed to supply students with a working knowledge of the methodology applied in solving both routine and complex tax problems. Familiarity with the techniques will be gained through the study of text material, journals, and articles applied. Prereq: Acc 302 or its equivalent and graduate standing.

590V Independent Research (3) Individual research supplementing graduate study in a specific area of the Accounting discipline. May be repeated to a maximum of six hours. Prereq: Admission to Masters of Professional Accounting Program and approval of written proposal.
PSYCHOLOGY

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses is required, including basic statistics and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing. Graduate Record Examination scores on the General, Quantitative, and Analytic sections. The Advanced GRE in psychology are required for admission to the Master’s program, but is required of students who are applying for a graduate assistantship and/or the Ph.D. program. Although the advanced GRE is not required for admission to the Master’s program, a score of 700 or above is required for passing the comprehensive examination. A student who is not studying may be required to retake the exam at any time (either before or after admission).

The evaluation of admission for all students applying to the Master’s program is based primarily on a numerical composite score obtained by combining the last two years of the overall undergraduate GPA (and any graduate coursework completed since graduation) with the average of the three subscores comprising the Aptitude portion of the GRE divided by 100. A student is admitted if his or her composite score is 8.0 or greater. A student whose composite score falls below 8.0 is not likely to be admitted and should not be considered for admission.

Letters of recommendation are not required. However, applicants who believe that such letters would provide information that is important and not clearly communicated in other documents are encouraged to submit one or more letters submitted in their behalf. Three letters of recommendation are required of all applicants who are seeking a departmental graduate assistantship or are applying to a postgraduate program. Exceptions to these admission requirements can be made on an individual basis.

Master of Arts

To complete the M.A. degree 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. Up to 6 hours of credit may be included in this total.

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

- Group A: Psychology 904 (Research Methodology)
- Group B: Psychology 566 (Research Methods in Development)
- Group C: Psychology 921 (History of Psychology)
- Group D: Psychology 944 (Research Methods in Social Psychology)

The student must earn a grade of at least B in the four required courses. If a C is earned, or an unsatisfactory grade (U) or withdraw (W) is recorded in a seminar course or its prerequisite, the student will not be admitted to the program.

Each seminar is required to complete a term paper or a project and one or more seminars may be required depending on the student’s area of specialization. A seminar is not required by the Department of Psychology but may be taken at the discretion of the student.

Master of Science

To complete the M.S. in psychology, the student must present 36 hours of graduate coursework in psychology. The M.S. degree has the same seminar requirement as the M.A., and all rules concerning seminar courses are the same in both degree programs, as well as the requirement of Psychology 800.

Required courses additional to the seminars may be designated by the department. This will ordinarily include up to 3 hours of practicum credit. Determination of a student’s plan of study only needs to be made after the first term of study at the discretion of the advisor and department. To meet the graduate studies requirements a student must take at least half of the work in courses which are open only to graduate students.

Specialist in Education

The Ed.S. degree requires completion of at least 66 graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as for those leading to certification in School Psychology with one exception. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

Doctor of Philosophy

The Ed.D. degree requires completion of at least 66 graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as for those leading to certification in School Psychology with one exception. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

Doctor of Philosophy

The Ph.D. degree requires completion of at least 66 graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as for those leading to certification in School Psychology with one exception. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.
1011 On efa

However, the students may require the

li on. F iling

psycho logy Com mitt ee nnrnng .

Certification

prac tic u;, empha•izin e

that

crit ps of all revi ee o the Psychology D epa r tment Th y

Application

1e o

OE.el

rachcum

12 . Deposifion o ftwoco ies

lo thr e e c ours · S

feel

lo thr ee co urses in basic J

sychology 957

Gradua te 0/lice.l~f:d; ./:, e UNL Dire c tor

uir e

the following two

455) (459), 855 M (455), or SPED 860M (4 6 0). The st udent

Psyc hology 859M (459), 855 M (455), or SPED 860M (4 6 0). The st udent

had

prabf1 c e

m e e r

befo re

m aintain e d the professional standards of school psychology. The student in training is expected lo

to enroll.

in

psyc ho logy , in clu ding P sychology 101 and Psy-

school psychology. This w ill normally be taken after the

s of

and theory concerned

students must ha ve been a c cepted in t his pro gram before e nrolling in Psy c h ology 853V o r

428 / 828M ) P rereq: B iol-

behavior manilesfed by the orga n ism , as we ll as

standard ized tests in

behavior.

and
testings

and

and

428 / 828M (same as B io logy

/577

997V, and one of the following: Psychology 859M (459), 855M (455), or SPED 860M (460). The student

up for 3 credit hours for each semester of internship

is encouraged to apply to the Psychology Department at the same time they make application for degree

in order to ensure that required courses are included in the plan of study for the degree. In any event, st udents must have been accepted in this program before enrolling in Psychology 853V or

854V. Application should be made to the Psychology Department at the same time by at least two mem be rs of lhe Schoo l

Programs in School Psychology

same as (473, 857, 858, 859, and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and

and
The study of Sigmund Freud, psychanalytic theory, and current theories of sleep and dreams. Readings are emphasized. Prereq: None.

444W The Abnormal Psychology (3) A course designed to examine the aberrant behavior of mentally and physically handicapped persons. Symptoms, dynamics, therapy, and prognosis of syndromes are considered. Prereq: Psychology 101.

455W Personality Theories (3) A comparative approach to the understanding and appreciation of personality theories considering history, issues, applications, validations, and prospects. Prereq: None.

467M Jungian Psychology (3) The study of Carl Jung’s analytical psychology, and related modern theories, theory, and literature. Readings are emphasized. Prereq: None.

468/468M Eastern Psychology (3) Theory and techniques of Eastern psychology with emphasis on cross-cultural understanding. Daily practice of meditation required.

452/852M Psycholinguistics (3) A discussion of the relationship between psychological and linguistic variables as they are expressed in spoken and written language, focusing on how such variables of sentence structure, meaning, and expression vary across cultures.

455/855R Retardation (3) This course considers significantly subnormal intellectual function and intellectual behavior during the developmental period and associated with impairment in adaptive behavior. Such research is emphasized. Prereq: Psychology 431/831M or Psychology 213 or equivalent.

457/857M Introduction to Behavior Modification (3) Introduction to the experimental methods of behavioral modification and research literature on changing behavior through behavior modification techniques. Particular attention will be paid to methodological concerns regarding single subject design, ethical considerations, and ramifications of behavioral psychology for child and adult behavior. Prereq: Psychology 431/831M, or Psychology 213 or equivalent.

459/859M Psychology of Exceptional Children (3) A study of exceptional children and young adults, including persons with sensory or motor impairments, intellectual retardations or superiorities, talented or gifted abilities, language or speech discrepancies, emotional or behavioral maladjustments, social or cultural differences, or major specific learning disabilities. Crosslisted with SPED 810M. Prereq: None.

470W Social, Work, Psychology, and the Law (3) An examination of some of the aspects of selected social welfare policy issues such as residential segregation, pollution, readjustment of drug addiction, creditor and debtor’s rights, landlord-tenant relationships, housing law, right to treatment, status of the convicted individual, mental health commitment procedures. Prereq: SW 311 or equivalent, at the graduate level SW 855 or permission.

300W The Profession of Psychology (3) A required non-credit course for graduate students in psychology. Intended to familiarize the beginning graduate student with the profession of psychology, including such topics as ethics, professional organizations, job and educational opportunities, the use of reference materials, licensure and certification, and other questions related to the practice of psychology. 800V Computer Concepts in Psychology and the Behavioral Sciences (3) An introductory computer course emphasizing the importance of computers in the areas of psychology, sociology, and education. Includes: types of computers, and a discussion of programming languages such as COBOL. Prereq: Psychology 213 or equivalent.

804W Nonparametric Statistics (3) A study of statistical inference, tests of hypotheses, and applications on distribution-free tests to solve specific problems in behavioral sciences.

35V Introduction to School Psychology (3) This course is intended for the introductory graduate student in either the psychological assistant or school psychologist program. Cognitive and affective factors constitute one of the student’s first exposures to the professional field of school psychology involving the study of school psychology methods and standardized techniques. Prereq: Admission to the graduate program and psychological assistant or school psychologist program.

45V Advanced Educational Psychology (3) A study of the process of learning and their applications to problems of contemporary education, particularly those problems encountered in the classroom. Prereq: Psychology 351.

45V Clinical Assessment I Foundations (3) This is an introductory paper survey course on the clinical and subjective aspects of human assessment. It is intended to serve as a prerequisite to a more advanced study of assessment according to disciplinary specialization. Clinical considerations are reviewed in the area of assessment techniques, interviewing, observational analysis, rating scales, and standardized intellectual and achievement tests. Objective personality methods, and critical social and behavioral inventories (relevant to assessment). Prereq: Admission to graduate study in psychology, social work, sociology, or education. Psychology 813M or equivalent.

45V Individual Tests I (3) Administration, scoring, standardization, and interpretation of individually administered tests. Crosslisted with SPED 810M. Prereq: None.

45V Special Social, Work, Psychology, and the Law (3) An examination of some of the aspects of selected social welfare policy issues such as residential segregation, pollution, readjustment of drug addiction, creditor and debtor’s rights, landlord-tenant relationships, housing law, right to treatment, status of the convicted individual, mental health commitment procedures. Prereq: SW 311 or equivalent, at the graduate level SW 855 or permission.

45V Multivariate Statistical Analysis (3) An introduction to multivariate statistical techniques commonly utilized in behavioral research. Prereq: Statistical Analysis 320M.

45V Multivariate Statistical Analysis (3) An introduction to multivariate statistical techniques commonly utilized in behavio nal research. Prereq: Statistical Analysis 320M.

45V Multivariate Statistical Analysis (3) An introduction to multivariate statistical techniques commonly utilized in behavioral research. Prereq: Statistical Analysis 320M.

45V Multivariate Statistical Analysis (3) An introduction to multivariate statistical techniques commonly utilized in behavioral research. Prereq: Statistical Analysis 320M.

85V Introduction to Therapeutic Techniques with Children (3) The purpose of this course is to become familiar with play therapy, a technique used to assist children in developing socially appropriate behaviors and in the resolution of emotional and behavioral difficulties. Prereq: 805V or permission.

85V Learning in Children (3) A course dealing with learning in childhood and the transition to adulthood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.

85V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development in infancy and childhood. Prereq: 805V or permission.
cused, and relevant methodological and practical issues such as quasi-experimental design and utilization are explored. Prereq: Students should have prior graduate level coursework or experience in research design and statistics in the applied social sciences.

943 Proseminar: Personality (3) A course covering the effects of personality variables in social behavior. A historical, theoretical, psychometric, and experimental approach will be emphasized. Prereq: Permission of instructor.

944 Proseminar: Social Psychology (3) Examination of the major controversies in social psychology. Topics will include: labeling, perception, interpersonal attraction, leadership and group effectiveness, attitudes, attitude measurement, and attitudes change; intergroup relations, power, and social influence. New topics will be added as they become part of the research interests of social psychologists. Prereq: Permission of the instructor.

947 Psychopathology of Youth (3) To consider basic psychological theories, principles, models, and research as they apply to youth, especially focusing on the psychology of adolescence and maturity. Prereq: None.

948 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 Gerontology 948). Prereq: 12 hours of psychology and/or gerontology or permission of the instructor.

952 Linguistic Development (3) Theory and research concerning the acquisition of language are discussed. Attention is paid to differences and similarities in the development of language in normal and delayed children. Prereq: Psychology 956, Proseminar in Developmental Psychology.

953 Cognitive Development (3) This course covers contemporary issues in theory and research concerning the development of cognitive processes by which environmental information is perceived, attended to, stored, transformed, and used. Both theoretical and empirical information concerning developmental issues will be emphasized. Prereq: Psychology 956, Proseminar in Developmental Psychology.

956 Proseminar: Developmental Psychology (3) A comprehensive and intensive coverage of the major historical and contemporary issues in human development. Prereq: Permission of the instructor.

957 Applied Behavior Analysis (3) A course presenting an introduction to experimental methodology with applied behavior analysis. Topics covered may include observational recording systems, reliability indices, procedural implementation of behavior change techniques, single-subject research designs, and a broad review of the research literature in the area. Prereq: Psychology 956, Proseminar in Developmental Psychology (Pay 886V, 875V, 904V, or equivalent) and consent of instructor.

957L Laboratory in Applied Behavior Analysis (3-6hrs) Laboratory work coordinated with Psychology 957 (Applied Behavior Analysis) consisting of the systematic application of behavior change techniques to the study of subject experimental designs. Emphasis will be on the application of behavior analysis to specific problems in subject behavior. Prereq: Psychology 957 or permission.

958 Personality Assessment (3) A course dealing with projective and objective methods of assessing personality and character traits. Reliability, assumptions, sensitivities, and clinical applicability will be emphasized. Prereq: Permission of instructor.

966 Industrial Psychology (3) A course on the psychological aspects of work in industrial organizations. Emphasis is placed on the relationship between job satisfaction and performance, and on the implications of industrial psychology for personnel decisions and organizational policies. Prereq: Permission of instructor.

971 Seminar in Psychology (1-3) Independent study in psychology. Prereq: Consent of instructor.

972 Industrial Training and Development (3) An analysis of the psychological and practical problems of conducting adult training programs, with an emphasis on the needs of industry including design, diagnosis, development, implementation, and evaluation. Emphasis is placed on practice in designing and implementing training programs in response to actual industrial situations. Prereq: Psychology 972 or consent of instructor.

973 Research Methods in Developmental Psychology (3) A course in the research methods used in the study of human development. Prereq: Consent of instructor.

977 Police Psychology (3) Police Psychology (3) An overview of the psychology of police work, focusing on the selection, training, and evaluation of police officers. Prereq: Permission of instructor.
Provisional admission may be granted the applicant has achieved a grade average of 2.70 or above or has not completed 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 when the applicant: 
1. has a demonstrated record of public sector administration; or 
2. has a graduation date at least four years previous to application; or 
3. has demonstrated through recent coursework an ability to successfully complete graduate work.

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

Application for Candidacy
In accordance with Graduate College guidelines, students must apply for candidacy for the degree when (1) a minimum of six hours of graduate credit necessary to the degree program have been completed; (2) a grade average of "B" with no grade lower than "C" has been earned; (3) the appropriate graduate examination scores (GRE, MAT, GMAT, LSAT) have been placed on file with the Graduate Office and (4) the student is not currently carrying incompletes within their area of study.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. Application forms should be filled out by the student in consultation with a faculty advisor — as soon as the student can qualify for admission to candidacy.

Transfer of Credit
Students may transfer up to nine hours of graduate credit to count towards the MPA degree requirements. This requires approval of the Graduate Program Committee. Students should discuss this with a faculty advisor. The request for transfer of credit should be made as soon as possible but in no case later than when filing for candidacy. The request to transfer credits requires a letter of explanation from the student.

Core and Required Courses
The Department of Public Administration has six core courses required for all MPA students.

1. PA 808M Public Budgeting
2. PA 818M Public Personnel Management (or PA 866V, Seminar in Public Personnel Management if credit has been earned in undergraduate PA 481 courses)
3. PA 824V Seminar in Introduction to Public Organizations
4. PA 844V Seminar in Organization Development in Public Agencies
5. PA 854V Seminar in Advanced Management Analysis
6. PA 864V Seminar in Public Financial Administration

The following courses may be required, depending upon a student's academic and professional background.

1. PA 806V Seminar in Research Methods
   (Required if student's undergraduate education does not include adequate training in research methods and statistics as determined by the Graduate Committee. Elective for others.)
2. PA 806V Seminar in Survey of Public Administration
   (Required if student's undergraduate education does not include an introduction to public administration course. Elective for others.)
3. PA 806V Seminar in Public Administration
   (Required if student's undergraduate education does not include an introduction to public administration course. Elective for others.)
4. PA 806V Seminar in Internship
   (Required if student's professional background does not demonstrate managerial/administrative experience as determined by the Graduate Committee.)

Optional Areas
General Public Administration (12 hours from the following selected list in consultation with a faculty advisor. It is possible under exceptional circumstances to substitute other courses with approval of advisor.)

PA 818M The Legislative Process
PA 820M The Judicial Process
PA 831M Municipal Administration
PA 810V Seminar in Public Administration
Econ 865M State and Local Finance
PA 815V Seminar in Public Law
PA 830V Seminar in Public Policy
PA 846V Seminar in Public Personnel Management
PA 845M Public Sector Labor Relations
PA 850V Issues in the Administration of Non-Profit Organizations
PA 865V Seminar in Administrative Law

Public Works-Civil Engineering Option (12 hours from the following selected list in consultation with a faculty advisor.)

Four fields of supplemental study available: Transportation, Sanitary, Water Resources, and Design and Construction.

The objective of the program is to develop a broad based Civil Engineering plan of study for public administrators. It is possible under exceptional circumstances to substitute other courses with approval of advisor.

Pennsylvania State University
University Park, Pennsylvania 16802

Transportation
CE 468 Traffic Engineering
CE 469 Transportation Geometrics
CE 485 Urban Transportation Planning
CE 486 Transportation Planning and Economics
Sanitary
CE 500 Environmental Quality and Control
CE 520 Environmental Pollution Control
The GRE must be taken during the first semester of enrollment. A comprehensive final examination is required, but a thesis is not required.

Public Administration

830M Seminar in Public Policy (3) A study of the economic, social, and political determinants of public policy in terms of administration and decision making and of measuring and evaluating policy impact. The course includes both studies of general policy processes and, to a lesser extent, particular policy topics. Prereq: Permission of advisor.

440/840M Public Budgeting (3) A study of the processes and procedures involved in making budgets for governmental institutions. Prereq: 440, PA 217, Senior standing. For 840M, PA.

441/841M Personnel Management (3) A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and selecting public bureaucrats are examined as well as problems in personnel leadership, neutrality, accessibility, and performance. Prereq: For 441, PA 217, Senior standing. For 841M, PA 217.

443/843M 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: For 443, POL Sci 101, PA 217.

859M Public Sector Labor Relations (3) An introduction to the nature, characteristics, and implications of public sector labor unions and how they relate to public sector personnel practices. Prereq: Permission of advisor.


890M 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 development, administrative federalism, and economic development and the public sector. Prereq: Permission of advisor.

855V Seminar in Research Methods of Political Science and Public Administration (3) This course is designed to give students an introduction to the research methods of political science and public administration, including the methods of data collection and analysis for political science and public administration research. (Also listed under Political Science 855V.) Prereq: Permission of advisor.


The GRE must be taken during the first semester of enrollment. A comprehensive final examination is required, but a thesis is not required.

Public Administration

830M Seminar in Public Policy (3) A study of the economic, social, and political determinants of public policy in terms of administration and decision making and of measuring and evaluating policy impact. The course includes both studies of general policy processes and, to a lesser extent, particular policy topics. Prereq: Permission of advisor.

440/840M Public Budgeting (3) A study of the processes and procedures involved in making budgets for governmental institutions. Prereq: 440, PA 217, Senior standing. For 840M, PA.

441/841M Personnel Management (3) A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and selecting public bureaucrats are examined as well as problems in personnel leadership, neutrality, accessibility, and performance. Prereq: For 441, PA 217, Senior standing. For 841M, PA 217.

443/843M 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: For 443, POL Sci 101, PA 217.

859M Public Sector Labor Relations (3) An introduction to the nature, characteristics, and implications of public sector labor unions and how they relate to public sector personnel practices. Prereq: Permission of advisor.


890M 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 development, administrative federalism, and economic development and the public sector. Prereq: Permission of advisor.

855V Seminar in Research Methods of Political Science and Public Administration (3) This course is designed to give students an introduction to the research methods of political science and public administration, including the methods of data collection and analysis for political science and public administration research. (Also listed under Political Science 855V.) Prereq: Permission of advisor.


The GRE must be taken during the first semester of enrollment. A comprehensive final examination is required, but a thesis is not required.

Public Administration

830M Seminar in Public Policy (3) A study of the economic, social, and political determinants of public policy in terms of administration and decision making and of measuring and evaluating policy impact. The course includes both studies of general policy processes and, to a lesser extent, particular policy topics. Prereq: Permission of advisor.

440/840M Public Budgeting (3) A study of the processes and procedures involved in making budgets for governmental institutions. Prereq: 440, PA 217, Senior standing. For 840M, PA.

441/841M Personnel Management (3) A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and selecting public bureaucrats are examined as well as problems in personnel leadership, neutrality, accessibility, and performance. Prereq: For 441, PA 217, Senior standing. For 841M, PA 217.

443/843M 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: For 443, POL Sci 101, PA 217.

859M Public Sector Labor Relations (3) An introduction to the nature, characteristics, and implications of public sector labor unions and how they relate to public sector personnel practices. Prereq: Permission of advisor.


890M 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 development, administrative federalism, and economic development and the public sector. Prereq: Permission of advisor.

855V Seminar in Research Methods of Political Science and Public Administration (3) This course is designed to give students an introduction to the research methods of political science and public administration, including the methods of data collection and analysis for political science and public administration research. (Also listed under Political Science 855V.) Prereq: Permission of advisor.


The GRE must be taken during the first semester of enrollment. A comprehensive final examination is required, but a thesis is not required.
Courses offered by the School are subject to change.

S97V Seminar in Grants and Contracts (3) A seminar in the development, acquisition, and administration of grants and contracts. The course will be problem oriented, focusing on legal considerations, planning, and strategy for applying and awarding agencies, and problem analysis for proposals and the like. Prereq: Graduate standing with P.A. major, or permission of the instructor.

S81V Seminar in Metropolitan Planning (3) An overview of the present status of planning in urban areas with special emphasis on structure of planning departments, comparative urban planning, and problems of urban areas. Prereq: Geo 412 or recommendation from policy, soc, or econ departments. (Also listed under geo.)

S92V Readings in Public Administration (1-3) Specially planned readings in public administration for the graduate student who encounters such specialized training for graduate students in the completion of their degree program, or who has special preparatory needs, as determined by the department to be capable of pursuing a highly independent course of study. Prereq: Permission of graduate advisor.

S94V Research in Public Administration (1-3) To be designed for selected graduate students in public administration. It is especially suited for those in career students who have had internships, worked with public organizations, and who might profit from more in-depth research on a problem of public administration rather than additional classroom work. This course is designed to provide graduate students in public administration and permission of faculty advisor.

S83I/884V Internship (3 per term) Maximum of 6 to be granted upon completion of written report on internship. Internship in some government, national, or local office. Prereq: All coursework for the M.P.A. completed.

**Urban Studies**

S82M Comparative Urban Studies (3) Comparative urban studies: Emphasis will be placed on the historical, social, economic, cultural, and political development of various urban areas. This course will include the study of urban problems and solutions, as well as the implementation of urban policies. Prereq: Graduate Social Work.

S82V The Metropolis as a Public Economy (3) The integration of politics and economics in the metropolitan system as they affect metropolitans. The course will be structured to focus on the effects of poverty, transportation, crime, education, and the environment on metropolitan areas. Prereq: Graduate Social Work.

S82W Race, Ethnicity, and American Urban Culture (3) Three hours lecture and two hours discussion per week. The course will focus on the study of the historical, social, and cultural aspects of urban life in the United States, with special emphasis on the experiences of African-American, Hispanic, and Asian-American populations. Prereq: Graduate Social Work.

S86IV Interdisciplinary Seminar on Urban Community (3) An interdisciplinary course on the metropolitan community in which urban problems are presented in a broad interdisciplinary framework. (Also listed under geography.)

**Social Work**

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 society with the environment (i.e., family, friends, associates, and the community at large). Social workers bring together the client and the environment, and work with the client to find solutions to problems which arise in the client's social environment.

In these endeavors, social workers are employed in public and private counseling agencies and service organizations, residential and community facilities, as well as in hospitals, schools, and community agencies providing care for the mentally ill and retarded, court and correctional agencies, and community planning and development agencies and programs. Their endeavors and interventions are designed to provide more effective functioning of social systems and to provide for personal and family growth, as well as to help the people, families, groups, and institutions within the society toward self-sufficiency.

**Requirements for the Degree of Master of Social Work**

1. A minimum of one year in residence.
2. 36 hours of courses leading to the Master of Social Work degree. The Advanced Standing Program, for students with an approved Bachelor's degree in social work, requires 36 hours of graduate work, which may be completed in a minimum of two semesters and a full calendar year. The Two-Year Program for students with a Bachelor's degree not in social work, requires the same 42 credit hours plus up to 20 graduate credit hours of social work courses. Specific foundation course requirements are determined on the basis of each student's previous coursework and/or test knowledge.
3. Details of research, practicum, and other course requirements may be obtained from the School of Social Work.

NOTE: Social Work students may transfer up to twelve semester credits from another university toward the 42 credit M.S.W. program; each course must be approved by the Dean for Graduate Studies and Research as being appropriate substitute for a requirement or elective.

**Foundation Courses**

**800V Human Behavior and the Social Environment** (3) A course in the study of human behavior and the social environment focusing on the contributions of the biological, behavioral, and psychological sciences to understanding of human behavior in the social environment. Prereq: Graduate Social Work or consent of instructor.

**802V Policy, Planning, Services, & Analysis** (4) An examination of social policy development and the functioning of social systems within the context of the contributions of the biological, behavioral, and psychological sciences to understanding of human behavior in the social environment. Prereq: Graduate Social Work or consent of instructor.

**809V Research Methods in Social Work** (3) Scientific inquiry, research methods, and research design. Analytical and statistical techniques reviewed. Research in social work: research design, implementation, and utilization of social work practice will be explored. Prereq: Statistics, or permission of instructor.

**810V Social Work Practice I (Generics)** (3) This course is designed to serve as an introduction to the core concepts of social work practice with an emphasis on the development of professional skills and values. Prereq: SW 814V or permission.

**816V Social Work Practice II (Micro)** (3) This course is designed to serve as an introduction to the core concepts of social work practice with an emphasis on the development of professional skills and values. Prereq: SW 814V or permission.

**817V Social Work Practice III (Macro)** (3) This course is designed to serve as an introduction to the core concepts of social work practice with an emphasis on the development of professional skills and values. Prereq: SW 814V or permission.

**818V Social Work Practice IV (Clinical)** (3) This course is designed to serve as an introduction to the core concepts of social work practice with an emphasis on the development of professional skills and values. Prereq: SW 814V or permission.

**Micro Practice Courses**

**820V Micro Internship I** (3) To provide the student with a supervised experience in work with individuals in various modalities which are used in working with individuals, families, and small groups. Prereq: SW 817V or equivalent.

**821V Micro Internship II** (3) To provide the student with a supervised experience in work with individuals, families, and small groups. Prereq: SW 817V or equivalent.

**Social Work Practicum I** (3) Designed to give students in-depth knowledge and practice skills in the combined use of transactional analysis (ta) and Gestalt therapy. Prereq: SW 818V or permission.

**Social Work Practicum II** (3) Designed to give students in-depth knowledge and practice skills in the combined use of transactional analysis (ta) and Gestalt therapy. Prereq: SW 818V or permission.

**Human Sexuality in Social Work Practice** (3) The course provides an intensive introduction to the principles and techniques of working with sex and sexuality. It emphasizes the development of understanding and skills necessary for working with sex and sexuality in clinical and nonclinical settings. Prereq: SW 812V or permission.

**Social Work Practicum in Marriage, Divorce, and Remarriage** (3) This advanced practice course is designed to provide students with the skills and knowledge necessary to work with individuals, families, and small groups in the area of marriage, divorce, and remarriage. Prereq: SW 817V or SW 818V.

**Clinical Seminar in Mental Health** (3) This course utilizes a seminar format to provide students with a supervised experience in the assessment and treatment of mental health problems. Prereq: SW 814V or permission.

**Pricipal Courses**

**805V Advanced Social Work Practicum I** (3) To provide individualized practicum experiences in micro and macro social work practice.

**Micro Practice Courses**

**820V Micro Internship I** (3) To provide the student with the opportunity to study social work practice with individuals, families, and small groups. Prereq: SW 814V or permission.

**821V Micro Internship II** (3) To provide the student with the opportunity to study social work practice with individuals, families, and small groups. Prereq: SW 814V or permission.
486/869M Working with Minority Elders
(3) This course is an interdisciplinary one, designed to provide an understanding of the cultural issues involved in working with minority elders. The course is intended for social work seniors and graduate students, each of whom is required to take one or more advanced courses on the topic of minority aging. The course is cross-listed with 454. Senior or permission of instructor.

875M Social Work, with Developmentally Disabled Persons
(3) This course will provide an introduction to the field of social work with developmentally disabled persons, focusing on the special needs of this population, including issues of discrimination, accommodation, and support services. The course is cross-listed with 454. Senior or permission of instructor.

466/866M Social Work in Child Welfare
(3) This course is designed for the student who is preparing for a career in child welfare. The course will cover the history and development of child welfare services, including the role of the worker in assessing and developing treatment plans. The course is cross-listed with 454. Senior or permission of instructor.

898V Seminar in Utilization of Research Methods
(2) This seminar will provide an introduction to the methods and techniques used in research. Topics include research design, data collection, and analysis. The seminar is cross-listed with 454. Senior or permission of instructor.

485V Social Work, Social Action, Change & Political Advocacy
(3) This course will explore the role of social work in promoting political advocacy and social action. The course will cover the history and development of social work advocacy, as well as current issues and strategies. The course is cross-listed with 454. Senior or permission of instructor.

896V Evaluation of Social Programs
(3) This course will provide an introduction to the methods and techniques used in evaluating social programs. Topics include program design, data collection, and evaluation. The course is cross-listed with 454. Senior or permission of instructor.

869M) TOPICAL SEMINAR IN SOCIAL WORK
(2) Advanced topical topics and issues in social work practice and theory. Special topics are chosen by the instructor. The course is cross-listed with 454. Senior or permission of instructor.
Anthropology

420/820M Urban Anthropology (3) The course is intended to examine for cities from an anthropological point of view. Included will be an overview of its history and the processes by which cities have grown and change as well as the internal structure and processes within the city. The city is considered to be comparative geographically and temporally. Topics covered will include the development and size of cities in the so-called “third-world countries” as well as in the developed, industrialized areas. Graduate students will be required to do a substantive term paper on a topic mutually acceptable to both the instructor and the student. The student will also be required to make an oral presentation on the entire research done and the major findings. PreReq: Permission of the instructor.

421/821M Cultural Anthropology (3) Arts, economics, family, kinship, politics, religion, sub­ urbanization, women and age are defined fields. PreReq: For 401, 9 hours of sociology, including Sociology 101. For 801M, permission of the instructor.

420/820M North American Archaeology (3) American Indian culture history in North America, with emphasis on the peoples of the new world, origin and development of new world cultures, the development of mid American civilizations and their impact on core areas of village farming. PreReq: Permission of the instructor. Recommended: Anthropology 105 or 202, permission of the instructor.

422/822M Psycholinguistics (3) A discussion of the literature concerned with how such psychological variables as perception, learning, categorization, and development relate to the linguistic variables of sentence structure, meaning, and social meaning. PreReq: Senior or graduate standing or permission of the instructor. Recommended: Anthro 105. Same as Psychology 452 and Comms 452.

415/S21M Seminar in Anthropological Problems (3) The seminar will cover a specific topic. Permission is required. PreReq: Permission of the instructor.

Sociology

401/801M Social Control of Behavior (3) The social processes by which the person's behavior is adapted to the group. External strains, roles, self-control. Analysis and measurement of behavior in defined fields. PreReq: For 401, 9 hours of sociology, including Sociology 101. For 801M, permission of the instructor.

402/802M Collective Behavior (3) Group and individual processes of social action and institution formation are studied. The development of inventory groups and ideologies by personal groups in the field. PreReq: Permission of the instructor.

410/810M The Community (3) A basic course in community sociology. Sociology theory and the techniques of empirical research are applied to published studies of communities in the United States and elsewhere. The comparative social scientific method is elaborated as it pertains to data derived from community investigation. PreReq: For 410, 9 hours of sociology, including Sociology 101. For 801M, permission of the instructor.

411/811M Applied Social Gerontology (3) A basic course in the social gerontology with a special emphasis upon the aging of social institutions and social populations. Pre Req: Permission of the instructor. Recommended: Sociology 101. Same as Sociology 411.

412/812M Urban Geography (3) A geog­ raphy of the city from the viewpoint of history, site, structure, and situation, external and internal re­ lations, and the comparative study of cities. (Same as Geography 412/812M). PreReq: Permission of the instructor.

413/813M Sociology of Deviant Behavior (3) A theoretical analysis of the relations of deviant group behavior and subculture to society. PreReq: Permission of the instructor. Same as Psychology 432 and Communication 820M. PreReq: Senior or graduate standing or permission of the instructor. Recommended: Anthro 105. Same as Psychology 452 and Comms 452.

414/814M Seminar in Sociological Problems (3) The seminar will cover a specific topic. Permission is required. PreReq: Permission of the instructor.

415/815M Urban Sociology (3) Examines urban theoretical perspectives, urbanization processes, the diversity of metropolitan communities, urban stratification, urban neighborhoods, community power and prestige, urban planning, the city as a social system, 10 hours of sociology, including Sociology 101 or permission of the instructor. For 814M, permission of the instructor. (Same as Geography 413/813M).

415/815M Urban Sociology (3) A seminar dealing with urban sociology, social and cultural phenomena. The study theme is the city as a social system.
TEACHER EDUCATION

The Department of Teacher Education offers graduate degrees in Elementary Education, Reading, Secondary Education and Urban Education. In addition, graduate concentrations are available leading to certification or endorsement in Educational Media, Gifted Education, Vocational Education and Special Vocational Needs.

Admission Requirements

The requirements for unconditional admission into a graduate degree program are as follows:

1. A valid teaching certificate except for Urban Education
2. An undergraduate GPA of 3.0 or above
3. Completion of undergraduate deficiencies
4. An acceptable score on one of the following (must be completed before a second enrollment in classes):
   a. Graduate Record Examination — minimum score of 840 on the Verbal and Quantitative sections
   b. Graduate Record Examination — minimum score of 1260 on the Verbal, Quantitative and Advanced Test in Education
   c. Miller Analogies Test — minimum raw score of 35

Comprehensive Examination

Students who seek the Master of Science degree must take a written Comprehensive Examination. This examination is taken at the completion of all coursework required in the approved Plan of Study.

Non-Degree-Seeking Students

Students who are not planning to pursue a program leading to a Master's degree are allowed to take courses for which they meet the prerequisites. Their graduate advisor will confer with them in planning for such courses. Students not pursuing a graduate degree will be admitted as unclassified graduate students. Normally, no more than six hours taken as an unclassified student may be applied toward the graduate degree program.

Elementary Education

Master of Arts

The Master of Arts degree in Elementary Education requires 30 hours of coursework. This program allows for individualization and provision of an opportunity for study in an area of interest. Assistance is available to students retained within the 30 hours. Programs for the Master of Arts degree in Elementary Education will be determined in consultation with the major advisor.

Master of Science

Degree Programs

I. Required Courses
   TED 801V Introduction to Research
   TED 804V Seminar in Elementary Education
   TED 805V Seminar in Urban Education
   TED 806V Seminar in Reading
   TED 807V Seminar in Urban Economics
   TED 808V Seminar in Urban Community

II. Area of Concentration
   A. Elementary Education
      TED 899V Thesis
   B. Urban Education
      TED 899V Thesis

Reading

Master of Science

The Master of Science degree with a major in reading conforms to standards of the International Reading Association. It is designed for reading teachers and must be completed in reading in Nebraska. A minimum of 21 hours is required.

I. Required Courses
   TED 801V Introduction to Research
   TED 804V Seminar in Elementary Education
   TED 805V Seminar in Urban Education
   TED 806V Seminar in Reading
   TED 807V Seminar in Urban Economics
   TED 808V Seminar in Urban Community

II. Related Professional Courses
   TED 911V Prerequisits and Practices in Elementary Reading
   TED 912V Teaching Reading in the Secondary School
   TED 913V Seminar in Reading
   TED 914V Seminar in Urban Education
   SPED 801V Diagnostic and Remedial Instruction in Reading
   SPED 802V Measurement and Evaluation of Reading
   SPED 803V Clinical Practice in Reading

III. Related Graduate Courses
   Including selected work in such areas as guidance and counseling, special education, education, and psychology.

Secondary Education

Secondary Education students may earn the Master of Arts degree or the Master of Science degree. Professional certification and/or additional endorsements may be earned as a part of both degree programs by developing an appropriate Plan of Study in consultation with an advisor.

Master of Arts

I. Required Courses
   TED 801V Introduction to Research
   TED 804V Seminar in Elementary Education
   TED 805V Seminar in Urban Education
   TED 806V Seminar in Reading
   TED 807V Seminar in Urban Economics
   TED 808V Seminar in Urban Community
   TED 899V Thesis

II. Required Academic Courses
   TED 899V Thesis

III. Related Professional Academic Courses

Secondary Education

Secondary Education students may earn the Master of Arts degree or the Master of Science degree. Professional certification and/or additional endorsements may be earned as a part of both degree programs by developing an appropriate Plan of Study in consultation with an advisor.
Master of Science

I. Required Courses
TED 801V Introduction to Research
TEN 803V Seminar in Education: Secondary
TEN 841V Analysis of Teacher Behavior
TEN 845V Improvement of Instruction
TEN 849V School Curriculum Planning
II. Related Teacher Education Courses
III. Related Professions/Academic Courses

Urban Education

The Master of Science Program in Urban Education is designed for graduate students who are interested in exploring the contemporary issues concerning urban educational institutions. The range of relevant experiences for both classroom teachers and community workers in allied professional fields. Students in this thirty-six hour program will increase their competence and expertise in functioning in an urban setting, a learning setting within the urban setting, but also within the wider community milieu, institutions, and inter-relationships of education and other primary socializing agencies.

Some of the courses offered in the program are designed specifically to facilitate an analysis of the changing lifestyles within the urban setting, and specific skills to function effectively as an educator. In this manner, students will be able to view the opportunity to become aware of and the ability to handle the learning problems of the urban youth. The program emphasizes a cultural awareness and appreciation of the varied areas within multiculturalism. Students will focus on a critique of existing programs and the development of new strategies for urban education.

I. Required Courses
TEN 801V Introduction to Research
TEN 803V Seminar in Education: Urban
TEN 841V Education and Society
TEN 817V Alternative Strategies for Education
TEN 818V The Urban School
II. Select 6 hours from any of the following:
TEN 804M Mental Health for Teachers
TEN 809M Growth and Development of the Disadvantaged
TEN 811V Field Research Techniques in Urban Education
TEN 815V Comprehensive Education
TEN 816V Conflict and Controversy in Urban Education
TEN 817V Anthropology and Urban Education
III. Electives (to be determined by the student and advisor)

Teacher Education

480/880M Education for the Uncertain Future (TEN) (3) It is the intent of this course to familiarize students with the tools available to educators in the future. Future-oriented learning, teaching, and learning for students who can integrate into their perceptions and use of their professionals. Prereq: None.

490/890M Mental Health for Teachers (3) A study of the principles and practices of mental health in the classroom. Major emphasis is placed on the teacher's role in providing an environment that will foster learning to relate to children and learning about oneself. Secondary emphasis is placed upon communication phenomena and the impact of information and authentic structures upon mental health. Prereq: Junior or Senior standing.

421/812M Creating Free Classrooms (3) This course is designed to develop practices that will encourage students and teachers to have a greater understanding of the humanistic personality. Prereq: Admission to graduate study.


424/824M Parent Involvement in Early Childhood Education (3) This course is designed for classroom teachers and parents in training to learn to work effectively with parents. The course will examine the purposes and methods of several approaches to parent-teacher relations and help students become familiar with and develop the skills necessary for the planning, designing, implementing, and evaluating effective parent-teacher and parent-student components in early childhood settings.

427/871M Reference and Bibliography (3) This course will familiarize students with the reference literature and services with various reference librarians; identify and discuss reference materials consulted in the fields of sciences, humanities and social sciences, and describe the process and flow of information through an information retrieval system. Prereqs: Admission to Graduate College and TED 871, Reference and Bibliography.

472/872M Advanced Reference and Bibliographic Study (3) This course will provide an introduction to computer-assisted reference work; combine evaluation of reference courses and services with various reference librarians; identify and discuss reference materials consulted in the fields of sciences, humanities and social sciences, and describe the process and flow of information through an information retrieval system. Prereqs: Admission to Graduate College and TED 871, Reference and Bibliography.

474/874M Cataloging and Classification (3) An introduction to the basic cataloging procedures prescribed by the American Library Association and the Library of Congress. The course also involves working with the Dewey Decimal Classification System, Sears List of Subject Headings, and MARC format used by OCLC. Prereq: Admission to the Graduate College.

477/877M Cataloging and Classification II (3) The course is designed to develop new cataloging skills including nonsubject, subject, and author entries; analytical serial cataloging; and work with Library of Congress and MARC formats used on the OCLC system. Prereqs: Growth and Learning. Prereq: Admission to Graduate College.

486/876M Literature for Children and Youth (3) The course is designed to develop practices that will encourage students and teachers to have a greater understanding of the humanistic personality. Prereq: Admission to graduate study.

487/878M Instructional Television Program Planning and Production (3) Students will be introduced to the role of the television producer who is involved in the major project of producing a major project of practical significance and application. Prereq: Graduate standing.

488/879M Instructional Television Production (3) This course will be designed to enable the student to develop skills in the production of instructional television. Prereq: Approval of the student's advisor.

489/880M Administration of the Instructional Media Center (3) A course designed for students who wish to prepare themselves for the administration of an educational media pro-
Graduate course would be useful for groups studying level.

Colonial era to the present. U.S. Formal education in the United States...neider of the model designed specifically for the course reading of the course listing. The course will be an introduction to the field of research within the urban education and...practices in the classroom. This course will focus on utilizing research practices in...a graduate student whose research project emphasizes the area of science education. Its focus will be P-12 and as such is meant to serve graduate students in the Science Education department. The course will describe and analyze parallel student teaching including curricula, teaching learning strategies, the laboratory, and technical material. Particular strategies that have merit and relevance to today's students and teachers will be treated in depth.

International Curriculum and Educational Policy (3) An analysis of curriculum practices and programs across countries around the world. Units of study will include England, France, Greece, Nigeria, Bulgaria, China, Africa, and Russia. The course activities will include written assignments, class discussion with educators and as well as in-depth research on assigned areas. PreReq: Graduate Standing.

Societal Change and Education (3) This course is designed to familiarize teachers with the utilization of learning opportunities. The major emphasis in this course will be understanding and applying the procedures appropriate for teachers and adults to read and identifying teaching worlds. PreReq: TED 80 and one course in teaching at the graduate level.

Teaching Adult to Read: A course in Literacy Training (3) Designed to explain elementary-secondary, ABE teachers, and other individuals interested in teaching reading. The major emphasis in this course is designed for teachers and teachers to develop teaching strategies and the integration of micro-teaching with video tape equipment is stressed.

Methods and Techniques for Identifying Improving Teaching and Learning Skills (3) This course is designed to develop appropriate teaching techniques in the classroom. The identification of teaching methods for improving learning skills in today's classrooms is achieved through descriptive analyses of teaching methods as applied to specific learning problems in the areas of...attention to the development of new and innovative teaching methods. PreReq: A research paper presenting...in the components of this course will be examined in this course. PreReq: Graduate Standing. A seminar course designed to develop techniques in the...studying, and identifying teaching and learning techniques. PreReq: TED 805. Introduction to Research.

Methods and Techniques for Teaching Adult to Read (3) This course is designed to increase awareness and knowledge of teaching and learning techniques in the classroom. Its major emphasis in this course will be understanding and applying the procedures appropriate for teachers and adults to read and identifying teaching worlds. PreReq: TED 80 and one course in teaching at the graduate level.

Teaching Adult to Read: A course in Literacy Training (3) Designed to explain elementary-secondary, ABE teachers, and other individuals interested in teaching reading. The major emphasis in this course is designed for teachers and teachers to develop teaching strategies and the integration of micro-teaching with video tape equipment is stressed.

Methods and Techniques for Identifying Improving Teaching and Learning Skills (3) This course is designed to develop appropriate teaching techniques in the classroom. The identification of teaching methods for improving learning skills in today's classrooms is achieved through descriptive analyses of teaching methods as applied to specific learning problems in the areas of...attention to the development of new and innovative teaching methods. PreReq: A research paper presenting...in the components of this course will be examined in this course. PreReq: Graduate Standing. A seminar course designed to develop techniques in the...studying, and identifying teaching and learning techniques. PreReq: TED 805. Introduction to Research.
885V LOGO and the K-12 Curriculum (3) This course is intended for elementary and secondary teachers. It provides an introduction to the LOGO language for microcomputers and its applications in the elementary and secondary curriculum. The history, philosophy, and text/graphics operations of the LOGO language are studied. A particular emphasis is placed on implementing LOGO into the various areas of the elementary and secondary school curriculum. Prereq: Admission to Graduate College; one year teaching experience.

891V Guiding Gifted Students (3) A course designed to increase teachers' understanding of the social and emotional needs of gifted students. Teachers will also develop strategies for using the BASIC language and materials for teaching reading from Kindergarten through high school. Prereq: Admission to Graduate College and permission of instructor.

899 Thesis (1-4) Independent research project required of all students taking Masters of Arts degree. See Major advisor.

911 Principles & Practices in Elementary Reading (3) This is a beginning graduate course for both elementary and secondary teachers who has graduate standing. A major emphasis will be given to the development of reading programs, based principally on the BASIC language and materials for teaching reading from Kindergarten through high school. There are no prerequisites except graduate standing.

912 Problems of Teaching Reading in the Secondary School (3) An advanced course in reading for elementary or secondary teachers. Major emphasis will be given to the administration of reading programs. Materials and methods for the teaching of reading will be related to the developmental and intellectual level, as well as the social and emotional needs of secondary school students. Prereq: Admission to Graduate College and permission of instructor.

913 Seminar in Organization and Administration of Reading Programs (3) Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and who are practicing professionals with a total or partial responsibility for organizing and administering reading programs. The seminar will be conducted in three parts: organization, evaluation, and methods and materials for the teaching of reading. Prereq: Admission to Graduate College and permission of instructor.

918 Seminar in Research in Reading (3) A seminar course in which students will conduct self-initiated research projects on topics of their own choosing. Prereq: Admission to Graduate College and permission of instructor.

885V Administration and Supervision of Vocational Education (3) Basic concepts for the supervision of education, as related to the needs of the supervision of the student, the planning of the program, and the development of the administration of programs in vocational education. Prereq: Admission to the Graduate College. Admission to a College of Education Program. This course is offered in conjunction with EDAD 888V.

890V Administration of Reading Programs (3) Designed to prepare students to become leaders in the administration of reading programs. Prereq: Admission to Graduate College.

899V Applications of Learning Styles/Fac- tor Analysis (3) Based upon the theory of learning styles and factor analysis for providing for individual learning styles/factors in the classroom. Prereq: Admission to the Graduate College. Admission to a College of Education Program. This course is offered in conjunction with EDAD 888V.

895V Perspectives on Education of the Gifted (3) The course involves the building of a theoretical framework for the discussion of the processes of identifying gifted students, the selection of children for educational programs, and the development of instructional programs. Prereq: Admission to Graduate College.

895V Career Exploration and Occupa- tional Readiness for the Vocational Spe- cial Needs Learner (3) Designed to provide educational personnel who desire competency in vocational curriculum development to meet the individual needs of students who are unable to succeed in a regular classroom setting. Prereq: TED 882V Introduction to Vocational Education.

898V Vocational Curriculum Construction (5) A course designed for teachers, supervisors, administrators, and consultants interested in learning how to construct vocational education. This course involves principles, needs, trends, and factors that should be considered in developing a vocational education curriculum.

899V Applications of Learning Styles/Fac- tor Analysis (3) Based upon the theory of learning styles and factor analysis for providing for individual learning styles/factors in the classroom. Prereq: Admission to the Graduate College. Admission to a College of Education Program. This course is offered in conjunction with EDAD 888V.

915V Introduction to Curriculum Planning and Organizing (3) A study of the nature and trends in secondary school curriculum planning, the principles and methodologies utilized in curriculum planning. Strong emphasis is placed on curriculum construction.

937V Emerging School Curriculum (3) course provides the student with an understanding of the creative gifted student, as well as studying educational programs for the gifted. Prereq: Admission to Graduate College.

937V Emerging School Foreign Language (3) This course provides the student with an understanding of the creative gifted student, as well as studying educational programs for the gifted. Prereq: Admission to Graduate College.
course is designed especially for the teacher who is interested in the improvement of instruction in the foreign language. The course will encompass the instruction of such languages, but will also cover visual programs that have implications for the classroom teacher.

840V Improvement of Instruction of Secondary School English Language (3) Exploration of the implications of research in the teaching of literature and rhetoric for instructional improvements in the teaching of English.

841V Improvement of Instruction in Vocational Education (3) A seminar designed to familiarize the teacher with the literature in this area; reading and discussion of research literature; emphasis on new developments in the field.

854S Improvement of Instruction of Secondary School Social Studies (3) Designed to improve the instruction of social studies. The seminar will examine the importance of research findings and will suggest new teaching techniques.

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.

Black Studies
Graduate courses in Black Studies 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.

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.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.

Home Economics
Home Economics graduate offerings at UNO may be used as a minor (HDF, Nutr. Mgt. or TCD) for a designated major in the College of Arts and Sciences. The minor may also be used as a cognate or selected course on a plan of study.
451/51 M Advanced Techniques in Printmaking (3) Intaglio and lithography stressing color as a basic medium. Strong emphasis on image and content development. Prereq. Art 351 and 381 and permission of instructor for 851.

461/61 M Advanced Ceramics (3) An advanced, directed study of the potter’s wheel, glaze components, selection, loading and firing of gas and electric kilns. Prereq. Art 361, permission.

813/91 M Advanced Sculpture (3) Advanced problems in sculptural media. Prereq. 831M.

814 M Graduate Painting (3) More complex principles oil medium and related development. Prereq. 814M.


855 M International African Cultural Studies Field Research (1-8) Comparative political and cultural observations of selected black communities in the United States in relation to concurrent communities in Africa, the Caribbean, and Latin America. Section w: East Africa; x: West Africa; y: Europe; z: Latin America. Prereq. Permission of the instructor or graduate advisor. (Same as Pol Sc 450/800M)

Chemistry
All courses cited as prerequisites for enrollment in Chemistry must be completed with a grade of "C-" or better.


335L/355L Physical Chemistry Laboratory I (1) Laboratory studies to accompany Chemistry 333 or 533. Prereq: Chemistry 226, 227, 240L, 240L, 240L, Physics 212, Math 196.

336J/356J Physical Chemistry II (3) A presentation of the advanced undergraduate introduction to the areas of quanum mechanics, spectroscopy, structure and stereochemistry, and analytical chemistry. Prereq: Chemistry 333, 335L.

338J/358J Physical Chemistry Laboratory II (1) Physical chemistry laboratory. Prereq: Chemistry 336J or concurrent.

340J/340J Instrumental Analysis (2) Lecture two hours and discussion one hour. Instru­mentation and analysis of chemical systems. Prereq: Chemistry 240L, to be taken concurrently. Prereq: Physical Chemistry (Chemistry 340J) may be taken concurrently.

340J/440J Instrumental Analysis Laboratory (1) Laboratory study for Chemistry 340J or 340J. Prereq to be taken concurrently. Prereq: Physical Chemistry (Chemistry 340J) may be taken concurrently.

379J/579J Radiochemistry (2) Lecture two hours and discussion one hour. A survey of the basic principles of radiocarbon and chemical principles in the fields of biology, chemistry, and medicine. Chemistry 226L to be taken concurrently. Prereq: Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

379L/579L Radiochemistry Laboratory (1) Introductory radiocarbon dating. Prereq: Chemistry 379J. Chemistry 379L to be taken concurrently. Prereq: Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

423/623M Advanced Organic Chemistry (3) An advanced lecture course in modern theories and special topics in organic chemistry, or graduate standing. Prereq: Chemistry 226 and Physical Chemistry. (Physical Chemistry may be taken concurrently.)

424/624M Advanced Organic Chemistry (3) An advanced lecture course in organic chemistry or graduate standing. Prereq: Chemistry 226 and Physical Chemistry. (Physical Chemistry may be taken concurrently.)

425/625M Advanced Inorganic Chemistry (3) An advanced lecture course in inorganic chemistry, or graduate standing. Prereq: Chemistry 226 and Physical Chemistry. (Physical Chemistry may be taken concurrently.)

425M/625M Advanced Inorganic Preparations (1) Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques. Prereq: Chemistry 425M. (Chemistry 425M may be taken concurrently.)


Home Economics
Food and Nutrition
453/853 Caloric Balance of the Diet (3) Caloric balance of the diet, with emphasis on the dietary patterns associated with many diseases. Prerequisite: Consent of instructor.

411/811M Novel of the Golden Age (3) Study of the prose masterpieces of the sixteenth and seventeenth centuries, including Miguel de Cervantes, Calderon de la Barca, and Lope de Vega. Prerequisite: For 410, Spanish 317 or permission of the instructor.

411/811M Novel of the Golden Age (3) Study of the prose masterpieces of the sixteenth and seventeenth centuries, including Miguel de Cervantes, Calderon de la Barca, and Lope de Vega. Prerequisite: For 410, Spanish 317 or permission of the instructor.

416/816M Latin American Literature of the Twentieth Century (3) Critical and analytical study of the foremost Spanish American dramatists, poets, and essayists from modernism to the present. Prerequisite: Spanish 322 or permission of the instructor.

418/818M Chicano Literature and Culture (3) In English. A study of the representative works of Mexican American, Spanish American, and American writers, along with their cultural and historical antecedents. Does not apply toward foreign language requirements. Prerequisite: Permission of the instructor. (Same as 418/418M)

420/820M Latin American Novel (3) Study of the major Latin American novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors. Prerequisite: Spanish 322 or permission of the instructor.

424/824M Generation of 1898 (3) Examination of the ideology, philosophy, and aesthetics of the intellectuals of the nineteenth and twentieth centuries, from Romanticism to current thought. Prerequisite: Spanish 321 or permission of the instructor.

435/835M Latin American Short Story (3) Study of the major Latin American short story writers of the nineteenth and twentieth centuries. Prerequisite: Spanish 318 or permission of the instructor.

455/855 Modern Drama of Spain (3) An introduction to the modern and avant-garde theatre of Spain, from the second half of the nineteenth century to the present. Prerequisite: Spanish 318 or permission of the instructor. (Same as 435/435M)

465/865M Philosophy of Mind (3) A discussion of various accounts of the nature of minds and how they come to be. Topics to be studied include objections to the Cartesian dualism, or the idea that minds and bodies are separate. Prerequisite: Spanish 318 or permission of the instructor.

475/875M Electricity and Magnetism (3) The topics of this course include an introduction to the mathematics of electromagnetism, and the physical interpretation of various physical phenomena. Prerequisite: For 455, permission of the instructor.

Religion
415/815M Judaism in the Modern Age (3) A study of the history of Judaism since the Enlightenment, with emphasis on the last two centuries. Prerequisite: Consent of instructor. (Same as 455/455M)

430/830M Existentialism and Religious Thought (3) A study of existentialism in its historical contexts (e.g., Kierkegaard) and atheistic (e.g., Sartre) forms, and its impact on recent Jewish and Christian thought.

500V Readings in Religion (3) An individually organized program of readings pertinent to one or more topics, under the supervision of the instructor. To be carried out under the supervision of the instructor. May be repeated for credit. Prerequisite: Graduate standing or permission of the instructor, and no incompletes.
405/805M Solid State (3) Behavior of materials in the solid state as concerns energy levels, wave mechanics, optical and electrical phenomena. Prereq: Calculus and Physics 325 or permission.

407/807M The Special Theory of Relativity (3) This course includes the general historical background, the important experiments, Lorentz transformations, covariant formulation, applications to electromagnetism and mechanics and philosophical implications of special relativity including relationship to the general theory. Prereq: Calculus and Physics 112 or 212.

412/812M Atomic and Molecular Physics (3) This course consists of applications of quantum theory to atomic and molecular physics. Topics include the Schrodinger theory, solutions of square wells and simple harmonic oscillator potentials and barriers, one electron atoms, atomic spectra, fine structure, orbit angular momentum, selection rules, magnetic effects, ionic and covalent bonding, molecular spectra, and the Raman effect. Prereq: Physics 325 or the equivalent.

414/814M Nuclear Physics (3) Methodology and principles of nuclear science, nuclear structure, artificial and natural radioactivity, isotopes, tracer techniques, radiation health physics, reactor theory. Prereq: Calculus and Physics 212 or 216.

435/835M Astrophysics (3) Physics and theory of the physical characteristics, distribution, and space motion of stars and stellar systems; internal structure, evolution and death of stars; structure of solar atmospheres; interstellar matter and gaseous nebulae; structure and origin of the universe. Prereq: Physics 213 or 412 and Calculus I and II (Phys 135 is helpful).

455/855M Quantum Mechanics (3) In this rigorous introduction to quantum mechanics the student becomes familiar with the methods of Schroedinger's wave mechanics and Heisenberg's matrix mechanics. Using these techniques the following topics are discussed: Particles in potential wells, harmonic oscillator, angular momentum, hydrogen atom, time-dependent and time-independent perturbation theory and molecular bonding. Prereq: For 855M, Calculus, Physics 325, or permission of the instructor.

495-496/895M-896M Problems in Physics (Each 1-3) Individual laboratory work in some field of energy. Prereq: General physics and permission of instructor. For 496: 495 and permission of instructor.
RONALD C. MULLEN Music Studies, 1959; Associate Professor

GONZALO MUNEVAR (GF) Philosophy and Religion Ph.D., University of California, Berkeley, 1975; Assistant Professor

CASSIA SPOHN-GRUHL English Ph.D., Cornell University, 1972, Associate Professor

EDWARD J. SADLER Biology Ph.D., University of Chicago, 1972; Associate Professor

LEONARD W. PRESTWICH Philosophy, 1951; Professor

OLIVER B. POLAK (GF) Philosophy, 1967; Associate Professor

RONALD H. OZAKI (GF) Philosophy, 1971; Associate Professor

DANIEL M. SULLIVAN Chemistry Ph.D., University of Nebraska-Lincoln, 1972; Associate Professor

THOMAS A. PETRIE (GF) Educational Administration and Supervision Ph.D., The Ohio State University, 1966; Professor

JAMES W. SELEE Teacher Education Ed.D., University of Nebraska, 1978, Associate Professor

JAMES M. THOMAS Philosophy Ph.D., University of Oklahoma, 1975; Assistant Professor

LEON S. SMERICK Geology Ph.D., University of California, Los Angeles, 1974; Assistant Professor

BERNARD M. LITTLE Geology Ph.D., University of California, Los Angeles, 1974; Assistant Professor

JACQUELINE T. JOHNS Teacher Education Ed.D., University of Southern California, 1973; Assistant Professor

DRED H. TURNER History Ph.D., University of Minnesota, 1974, Associate Professor

JAMES B. STEEL Banking and Finance M.B.A., University of Iowa, 1976, Professor

JERRY B. STEINER Mathematics and Computer Science Ph.D., University of Nebraska, 1972; Professor

GREGORY S. SIMPSON Sociology Ph.D., University of Nebraska, 1973; Associate Professor

RICHARD T. THILL (GF) Computer Science Ed.D., University of California, Los Angeles, 1975; Professor

JEROLD L. SIMMONS History Ph.D., University of Minnesota-Minneapolis, 1971, Associate Professor

ROBERT V. SERIC Geology Ph.D., University of California, Los Angeles, 1967; Professor

OLIVER F. SLOAN Geology Ph.D., California Institute of Technology, 1967; Associate Professor

EDWARD J. SADLER Biology Ph.D., University of Chicago, 1972; Associate Professor

BURLINGTON J. REED Public Administration Ph.D., University of California, 1977; Assistant Professor

ROBERT S. SHARPE Biology Ph.D., University of Nebraska, 1968; Associate Professor

PHILIP E. VOGEL Geography Ph.D., University of Nebraska-Lincoln, 1976, Professor

DONALD F. NORRIS Professor

CARLE. NORDAHLAssistant Professor

LEONARD W. PRESTWICH Philosophy, 1951; Professor

DAVID M. SULLIVAN Chemistry Ph.D., University of Nebraska-Lincoln, 1972; Associate Professor

JOHN J. SMITH Professor
INDEX

Please note: The specific requirements for the various graduate programs offered and the descriptions of courses offered by those programs can be found in the section entitled "DEGREE/CERTIFICATE REQUIREMENTS AND COURSE DESCRIPTIONS." See the Table of Contents for page numbers for the desired programs.

<table>
<thead>
<tr>
<th>A</th>
<th>Accredited Standing</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Administration - Graduate Studies</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Administration - University Officers</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Administrative Personnel</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Admission Procedures</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Summary</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Deadlines</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Procedures for International Students</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Unconditional Admission</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Provisional Admission</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Unclassified Status</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Temporary Admission</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Admissions</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Affirmative Action</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Appeal Procedures</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Application for the Degree</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Assistantships, Teaching and Research</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Attendance in Class - Policy</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Audit Regulations</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Board of Regents</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Calendar for 1985-86</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Candidacy, Admission to</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Change of Program</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Comprehensive Examinations</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Computing Services</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Counseling Services</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Course Load Policy</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Credit/No Credit Option</td>
<td>34</td>
</tr>
<tr>
<td>B</td>
<td>Board of Regents</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Course Load Policy</td>
<td>33</td>
</tr>
<tr>
<td>C</td>
<td>Calendar for 1985-86</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Candidacy, Admission to</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Change of Program</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Comprehensive Examinations</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Computing Services</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Counseling Services</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Course Load Policy</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Credit/No Credit Option</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Degree Offered, Summary</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Discrimination - Policies</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Dropping Courses</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Equal Opportunity</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Ethical Conduct</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Financial Aid</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Fees</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Fellowships</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Full Time Graduate Student Status</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Grades, Required Performance</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty - Definition</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty List</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td>Graduate Management Admission Test (GMAT)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Graduate Program Committees</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Graduate Programs Offered - Directory</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Graduate Record Examination (GRE)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Handicapped Services</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Health Services</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>Incompletes</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Intercollegiate Registration</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>International Students</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Library</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Loan</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Miller Analogies Test (MAT)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Minority Student Services</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Non Degree (Unclassified) Status</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Organizations</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Part-Time Employment Services</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Placement Services</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Plagiarism</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Plan of Study</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Privacy of Student Records</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Provisional Admission</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Quality of Work Standards</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Reassessment to Program</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Reciprocity Agreement - Missouri</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Registration</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Residency Requirement</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Resident/Non-Resident Status</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Responsibilities of Students</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Scholarships</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Seniors - Permission to Remove</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Sexuality, Sexual Harassment - Policy</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Students - Permission to Remove</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Supervisory Committees</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Text of English as a Foreign Language (TOEFL)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Testing Center</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Thesis</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Time Limit for Graduate Degrees</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Transfer of Graduate Credit</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Travel Scholar Program</td>
<td>21</td>
</tr>
<tr>
<td>W</td>
<td>Women's Services</td>
<td>26</td>
</tr>
<tr>
<td>U</td>
<td>Unconditional Admission</td>
<td>27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T</th>
<th>Temporary Admission</th>
<th>28</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Text of English as a Foreign Language (TOEFL)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Testing Center</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Thesis</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Time Limit for Graduate Degrees</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Transfer of Graduate Credit</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Traveling Scholar Program</td>
<td>21</td>
</tr>
</tbody>
</table>

| U | Unclassified (Non-Degree) Status | 28 |

| Q | Quality of Work Standards | 32 |

<table>
<thead>
<tr>
<th>R</th>
<th>Reassessment to Program</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reciprocity Agreement - Missouri</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Registration</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Residency Requirement</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Resident/Non-Resident Status</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Responsibilities of Students</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Scholarships</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Students - Permission to Remove</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Supervisory Committees</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Text of English as a Foreign Language (TOEFL)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Testing Center</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Thesis</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Time Limit for Graduate Degrees</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Transfer of Graduate Credit</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Traveling Scholar Program</td>
<td>21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F</th>
<th>Financial Aid</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fees</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Fellowships</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Full Time Graduate Student Status</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Grades, Required Performance</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty - Definition</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty List</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td>Graduate Management Admission Test (GMAT)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Graduate Program Committees</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Graduate Programs Offered - Directory</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Graduate Record Examination (GRE)</td>
<td>29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E</th>
<th>Equal Opportunity</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ethical Conduct</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Financial Aid</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Fees</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Fellowships</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Full Time Graduate Student Status</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Grades, Required Performance</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty - Definition</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty List</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td>Graduate Management Admission Test (GMAT)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Graduate Program Committees</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Graduate Programs Offered - Directory</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Graduate Record Examination (GRE)</td>
<td>29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D</th>
<th>Degree Offered, Summary</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Discrimination - Policies</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Dropping Courses</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Equal Opportunity</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Ethical Conduct</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Financial Aid</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Fees</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Fellowships</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Full Time Graduate Student Status</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Grades, Required Performance</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty - Definition</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty List</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td>Graduate Management Admission Test (GMAT)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Graduate Program Committees</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Graduate Programs Offered - Directory</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Graduate Record Examination (GRE)</td>
<td>29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C</th>
<th>Calendar for 1985-86</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Candidacy, Admission to</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Change of Program</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Comprehensive Examinations</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>Computing Services</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Counseling Services</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Course Load Policy</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Credit/No Credit Option</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Degree Offered, Summary</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Discrimination - Policies</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Dropping Courses</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Equal Opportunity</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Ethical Conduct</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Financial Aid</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Fees</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Fellowships</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Full Time Graduate Student Status</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Grades, Required Performance</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty - Definition</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Graduate Faculty List</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td>Graduate Management Admission Test (GMAT)</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Graduate Program Committees</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Graduate Programs Offered - Directory</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Graduate Record Examination (GRE)</td>
<td>29</td>
</tr>
</tbody>
</table>