

1985

Graduate Academic Catalog (1985-86)

University of Nebraska at Omaha

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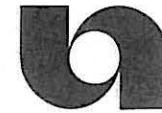
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University of Nebraska at Omaha Graduate Catalog 1985-86

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
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BASIC INFORMATION AND SUMMARIES

GRADUATE DEGREES OFFERED

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

Master of Arts or Master of Science (MA,MS)

A departmental or interdepartmental program for either the Master of Arts or Master of Science degree as approved by the Graduate Faculty will normally be arranged to conform to one of the following patterns:

- Option I. A 30 semester-hour thesis program (including at least six hours of thesis and a minimum of 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 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.



Dean Margaret Gessaman
and members of the UNO
Graduate Council

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—MS
 - Teaching the Emotionally Disturbed—MS
 - Teaching the Hearing Impaired—MS
 - Teaching the Mentally Retarded—MS
- ✓ Criminal Justice—MA, MS
- ✓ Dramatic Arts—MA
- ✓ Economics—MA, MS
- ✓ Educational Administration and Supervision
 - Elementary Administration—MS, EdS
 - Secondary Administration—MS, EdS
- ✓ English—MA
- ✓ Geography—MA
- ✓ Health, Physical Education and Recreation—MA, MS
- ✓ History—MA
- ✓ Mathematics—MA, MS, MAT
- ✓ Music—MM
- ✓ Political Science—MA, MS
- ✓ Professional Accounting—Master of Professional Accounting
- ✓ Psychology
 - Educational Psychology—MS
 - Industrial/Organizational Psychology—MS
 - Psychology—MA
 - School Psychology—EdS, Certificate
 - Developmental Psychobiology—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
- ✓ Black Studies
- ✓ Chemistry—Minor

- Engineering Mechanics—Minor*
- Foreign Languages
 - French—Minor
 - German—Minor
 - Spanish—Minor
- ✓ Gerontology—Minor, Graduate Certificate
- ✓ Home Economics—Minor*
- ✓ Philosophy and Religion
- ✓ Physics—Minor

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

** The Ph.D. with specialization in Industrial/Organizational Psychology or Developmental Psychobiology is offered in conjunction with the Department of Psychology at the University of Nebraska-Lincoln. The Ph.D. with a specialization in Experimental Child Psychology is offered in conjunction with the Department of Educational Psychology 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 UN-L campus using a UN-L Application for Admission form.

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

SUMMARIES OF POLICIES AND PROCEDURES IN GRADUATE STUDIES

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

UNIVERSITY REGULATIONS

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

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 any 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 phase out any program, to reassign instructors and to change tuition or fees 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

- In order to receive graduate credit for courses taken at the University, a student must have been admitted to graduate studies at UNO. Exceptions can be made for students admitted to graduate studies on another campus of the University of Nebraska or for senior students nearing the completion of their undergraduate work; inquiries should be made in the Office of Graduate Studies.
- 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).
- Anyone wishing to apply for admission to graduate studies at UNO should
 - Obtain an Application for Admission to graduate studies at UNO from the Office of Admissions; University of Nebraska at Omaha; 103 Eppley Administration Building; Omaha, Nebraska 68182.
 - Submit the completed application form with all required fees and documentation to the Office of Admissions, being careful to observe all deadlines.
 - Arrange to have an official transcript of all previously taken undergraduate or graduate course work sent directly to the Office of Admissions.
 - Read this *Graduate Catalog* carefully to learn what the department/area may require for admission in addition to the admission application form and transcripts.
 - Arrange to have the official scores on all required aptitude or advanced knowledge tests (GRE, GMAT or MAT) sent to the Office of Graduate Studies; applicants for Unclassified admission are not required to submit these test scores.
- When the file in the Office of Admissions is complete, the Office will forward the file to the appropriate department/area for review. The applicant will be notified by mail when this is done.
- 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 by mail 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 are sent an official Certificate of Admission to graduate studies when the admission process is complete. The Certificate of Admission is issued by the Office of Admissions and is the only recognized document confirming admission status at the University.

SUMMARY OF PROCEDURES FOR GRADUATE STUDENTS

- 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.
- In order to be eligible to receive a graduate degree, **students must be formally admitted to candidacy for the degree**; this is a process distinct from admission to graduate studies in the degree program. Students should file an application for admission to candidacy for the degree after successful completion of between six and the last eighteen graduate hours taken at the University of Nebraska. See the section entitled, "Admission to Candidacy for the Degree" for further information. **Official notification of admission to candidacy for the degree will be mailed to students by the Office of Graduate Studies.** If such notification is not received within a reasonable time, the students should call the Office of Graduate Studies.
- If the approved plan of study includes a thesis, students should follow all instructions included in the section entitled, "Thesis Option".
- Students should contact the Office of Graduate Studies at least once a semester to insure that their files are complete and in order.
- All students are required to pass final comprehensive examinations before receiving a degree.** The final comprehensive examinations are normally taken near the end of the degree program. Students should notify the department/area Graduate Program Committee at the beginning of the semester in which they plan to take the examinations.
- 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 reactivate the application.
- Students must pay all fees and fines and satisfy all obligations to the University at least twelve working days before conferral of the degree.
- Students wishing to participate in the Commencement ceremony must order a cap, gown and hood from the Bookstore.

ACADEMIC CALENDAR

First Semester, 1985-86

- July 5
Last day for submitting credentials for admission to Graduate Studies for First Semester 1985-86.
- Aug. 21, 22, 23
Registration (Fieldhouse).
First semester begins at 7:00 a.m. both day and evening classes.
- Aug. 26
Change of class schedules.
- Aug. 26-30
Last day until 4:00 p.m. to: Add a course to student's schedule; Add an "audit" course; Change to "CR/NC" grade in a course.
- Aug. 30
Vacation: no classes. University closed.
- Sept. 2
Vacation: no classes.
- Sept. 3
Last day for filing applications for degrees to be conferred in December.
- Oct. 4
Last day until 4:00 p.m. to: Drop a course with a grade of "W"; Change a course to "audit" credit; Change from "CR/NC" to grade registration in a course.
- Nov. 8
Thanksgiving vacation; no classes.
- Nov. 27-Dec. 1
University closed.
- Nov. 28-29
Classes resume at 7:00 a.m.
- Dec. 2
Last day for submitting credentials for admission to Graduate Studies for Second Semester 1985-86.
- Dec. 6
Last day of Classes.
- Dec. 14
Finals.
- Dec. 14-20
Commencement.
- Dec. 21
Holiday. University closed.
- Dec. 23-Jan. 1
Grades due in Registrar's Office at 12:00 noon.

Inter-Session

Special course offerings.

Second Semester 1985-86

- Jan. 1
Holiday. University closed.
- Jan. 8, 9, 10
Registration (Fieldhouse).
- Jan. 13
Second Semester begins at 7:00 a.m. both day and evening classes.
- Jan. 13-17
Change of class schedule.
- Jan. 17
Last day until 4:00 p.m. to: Add a course to student's schedule; Add an "audit" course; Change to "CR/NC" grade in course.
- March 7
Last day for filing applications for degrees to be conferred in May.
- March 23-30
Spring Vacation; no classes.
- March 31
Classes resume 7:00 a.m.
- April 4
Last day until 4:00 p.m. to: Drop a course with a grade of "W"; Change a course to "audit" credit; Change from "CR/NC" to grade registration in a course.
- April 8
Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 1985-86.
- April 13
Honors Day.
- May 3
Last day of classes.
- May 3-9
Finals.
- May 10
Commencement.
- May 5
Last day for filing credentials for admission to Graduate Studies for the First Summer Session, 1986.
- May 14
Grades due in Registrar's Office by 12:00 noon.
- May 26
Memorial Day; University closed.

Summer Session, 1986

- May 12-June 27
Evening Session "A".
- June 4-5
Registration.
- June 5
Last day for submitting credentials for admission to Graduate Studies for Second Summer Session, 1986.
- June 9-July 11
First Summer Session.
- June 9, 10, 11
Change of class schedule.
- June 30-Aug. 8
Evening Session "C".
- July 4
Holiday; University closed.
- July 7
Last day for filing applications for degrees to be conferred August 16, 1986.
- July 14-Aug. 15
Last day for submitting credentials for admission to Graduate Studies for the Fall Semester, 1986-87.
- Aug. 16
Second Summer Session.
- Aug. 20
Summer Commencement.
- Aug. 20
Final grades due in Registrar's Office by 12:00 noon.

* The above dates are subject to change. Modifications in the academic calendar could be necessitated by emergency conditions; the University reserves the right to make such changes.

**ADMINISTRATION
UNIVERSITY OF NEBRASKA
AT OMAHA**

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ADMINISTRATION OF GRADUATE STUDIES

The administrative Office of Graduate Studies on the UNO campus is located in Room 204 of the Eppley Administration Building. The office of the UNO Dean for Graduate Studies and Research, 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 (UN-L and UNMC) and the Graduate College of the University of Nebraska at Omaha were merged to form one University-wide Graduate College with one Graduate Faculty. The ultimate academic authority for all graduate programs within the University is vested in the approximately 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 of the Executive Graduate Council can be found in the "University of Nebraska Graduate College Governance Document".

University of Nebraska at Omaha

On each campus of the University on which graduate programs are offered, there is a campus Dean for Graduate Studies, a campus Graduate Faculty and a campus Graduate Council. The UNO Dean for Graduate Studies and Research administers graduate programs and policies on that campus; serves as presiding officer of the UNO Graduate Faculty and the UNO Graduate Council; and forwards 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 three graduate student members. Specific responsibilities of the Dean of Graduate Studies and Research and of the UNO Graduate Council may be found in the "Organization of Graduate Studies: University of Nebraska at Omaha".

GRADUATE FACULTY

Graduate Faculty Members

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

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

1. The nominee must hold the rank of Assistant Professor or above.
2. The nominee must hold the terminal degree normally accepted for academic employment in the discipline or its clear equivalent as determined by the Graduate Program Committee of the nominee's department or interdepartmental area.
3. The nominee will as part of his or her regular duties be actively involved in graduate student research and/or graduate teaching.
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.

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

GRADUATE PROGRAM COMMITTEES

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

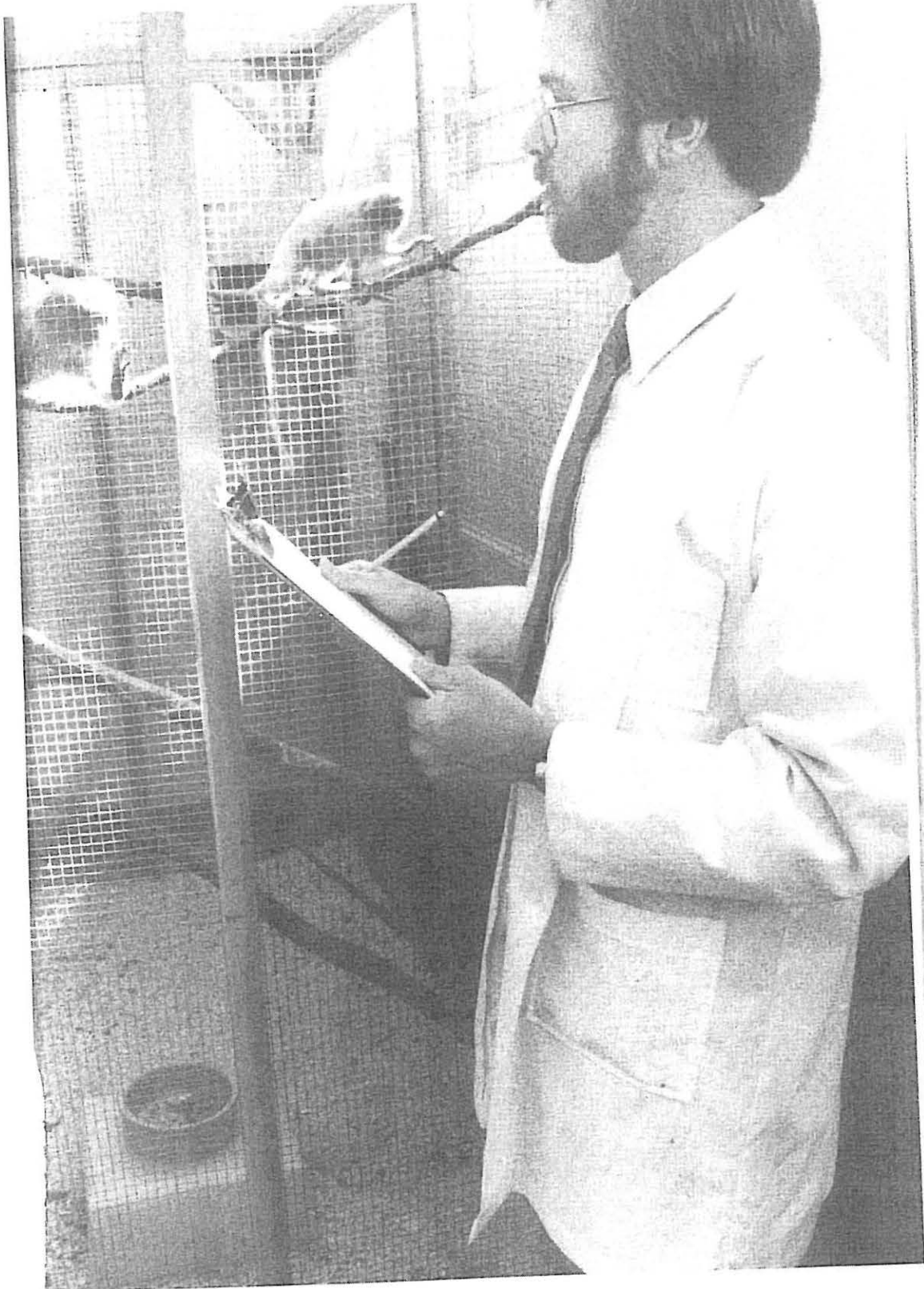
In its graduate department the Graduate Program Committee shall have the responsibility for the planning of the graduate program, the general supervision of candidates for graduate degrees and the evaluation of students by means of qualifying or final comprehensive examinations. The word "program" denotes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

GRADUATE STUDENT ADVISERS

Upon admission to graduate studies in a graduate department, each student is assigned an adviser by the Graduate Program Committee. The adviser is responsible to the student and to the Graduate Program Committee for 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 advisement must be provided by Members or Fellows of the Graduate Faculty (with exceptions possible only for persons with a primary advisement role under the direct supervision of a Member or Fellow). A change of adviser requires official action.

SUPERVISORY COMMITTEES

Some graduate programs require the establishment of a supervisory committee for each student. In particular, each student under Option I (page 5) must have a supervisory committee. Each committee is appointed by the Dean for Graduate Studies and Research based upon recommendation of the Graduate Program Committee. The committee shall consist of at least two voting Graduate Faculty Members from the student's graduate department and at least one voting Graduate Faculty Member from another department. In addition, other qualified persons may be appointed to *ex-officio* (non-voting) status if it is believed that they can provide needed expertise or that they could gain valuable experience by participating on the committee. If the student is under Option I, the chairperson of the committee shall be considered the student's thesis adviser.





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, practica, 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 reaffirms a policy of administering all of its educational programs and related supporting services and benefits in a manner which does not discriminate because of a student's or prospective student's race, color, creed or religion, sex, national origin, age, handicap or other characteristic which cannot be lawfully the basis for provision of such services. These programs, services and benefits include, but are not limited to, admission, class assignments, scholarships and other financial and employment assistance, counseling, physical education and recreational services, and the membership of student organizations.

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

Pursuant to this policy statement, UNO will undertake a continuing program of compliance with all federal, state and local laws relating to equal educational opportunity and affirmative action, specifically 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 503 and 504 of the Rehabilitation Act of 1973.

Title IX Coordinator: Title IX of the Education Amendments of 1972 is a law forbidding discrimination based on sex. If you have complaints concerning discrimination that is University related, you should contact Dr. Joe Davis, Assistant Vice Chancellor for Student Development Services, 113 Eppley Administration Building. Dr. Richard Hoover, Vice Chancellor for Educational and Student Services is the Title IX Coordinator; Dr. Hoover's office is located in 211 Eppley Administration Building, 554-2779.

Handicapped Students, Section 504: The University of Nebraska at Omaha adheres to equal opportunity and affirmative action. The University does not discriminate against the handicapped. If students feel that they have been discriminated against because of a handicapping condition they should contact Dr. Joe Davis, Assistant Vice Chancellor for Student Development Services, 113 Eppley Administration Building or Ms. Barbara Hewins-Maroney, Coordinator for Special Programs, 117 Eppley Administration Building.

Most University programs, services and activities are accessible to the handicapped. The University is willing, where possible, to make inaccessible programs, services and activities available to handicapped persons by relocating them or by other means.

SPECIAL NOTE: UNO welcomes handicapped students. Section 504 of the Rehabilitation Act of 1973 does not allow us to make preadmission inquiries regarding handicapped conditions. However, if you are handicapped and wish to receive information concerning available services, please notify us following your admission to UNO.

Discrimination and Sexual Harassment

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

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

* Sexual harassment is defined as any unwanted communication of a sexual nature, whether verbal, physical, written or pictorial, which has the purpose or effect of intimidating the person receiving the communication or any solicitation of sexual contact of any nature when submission to or rejection of such contact is used as the basis for either implicitly or explicitly imposing favorable or adverse terms and conditions of employment or academic standing.

Privacy of Student Records/Information

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

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

Class Attendance

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

If a student is absent or anticipates an absence, the student's primary responsibility is directly to the instructors, and the student should consult with them accordingly. A student who misses a class is nonetheless responsible for information and assignments communicated during that class session. If

students discover that they are to be absent for an extended period, they should promptly notify the instructors and be prepared to document the reason for extended absences.

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

Plagiarism

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

Plagiarism by Faculty

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

Plagiarism by Students

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

Ethical Conduct

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

ACADEMIC SERVICES

University Library

The University Library, a three-level building built in 1975 and located at the west end of the campus, offers many services to its users and contains materials and facilities for study and research. The collection includes approximately 500,000 volumes, 444,000 microform items and 4500 pieces of audio visual material. The total number of serials subscribed to is over 5,000, including almost 200 newspapers from around the world. Back issues in bound volumes and in microform are maintained. As a government depository, the University Library collects most federal and Nebraska state publications and also has documents from some other states and from the United Nations. Nearly all of the Library's collection is on open shelves and is arranged according to the Library of Congress classification system. After obtaining an LIRS identification number at the Circulation Desk, University of Nebraska students, faculty and staff may check out library materials with their UNO I.D. card at any of the three UN campuses. Community users may obtain a borrower's card for a small fee.

Study areas include tables and chairs, individual carrels and less formal seating. Photocopiers are available near the Media Center on the first floor (lower level). Seminar rooms, when not in use by scheduled classes, may be used for group study. An extended hours study room remains open during some of the hours when the main library is closed.

Qualified staff are available to aid students. Reference librarians answer questions at the Reference Desk, assist individual students with their research and give lectures to classes on the use of the Library and on the materials in specific subject areas. Attendants are available to aid Library users with government documents, current periodicals, reserve materials and audiovisual and microform material and equipment. When needed material is not available in our collection, the Interlibrary Loan Division can obtain it from other libraries for UNO students and faculty. Handouts with information about the Library's collections and its many services are available on the main floor of the building.

University Computing Services

The office of the Director of Campus Computing was established in 1982 to manage all facets of both academic and administrative computing on the UNO Campus. On the Campus Computing staff are eleven full-time employees and seventeen part-time student employees. The UNO Office of Campus Computing is located in 110 Eppley Administration Building, 554-2468.

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

are a part of everyday life on the campus. The computer as a tool is an integral part of virtually all fields of study, research and administration.

The academic computing capability centers around four major systems: two VAX 11/780 computers with 12 mega-bytes of memory each, a VAX 11/730 computer with 2 mega-bytes of memory and a PDP 11/44 with a 1 mega-bytes of memory. Additionally, UNO contracts with the University of Nebraska Computing Services for time on their IBM 3081 computer located in Lincoln. We also contract with a local firm for leased time-sharing computing on a CDC Cyber computer. There is a full array of software on our computers to satisfy the many and varied academic pursuits on campus. All of our academic computing capability is provided at no cost to the students and faculty.

There are a total of 144 computer terminals located in four user rooms on the UNO campus for use by students and faculty. These rooms are in the basement of the College of Business Administration building, the basement of the University Library, the second floor of the Peter Kiewit Conference Center and in the basement of the Eppley Administration Building. Consultants are available in each of these rooms to assist students applying the computer to their classroom needs.

Funding for Graduate Student Research

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

Student Organizations

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

TUITION, FEES, DEPOSITS AND REFUNDS

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

Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students availing themselves of the delayed billing option must familiarize themselves with the due dates, as publicized. Note: Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor the late payment penalties. Students in need of financial aid must consult the Office of Financial Aids in 103 Eppley Administration Building. Application for financial aid should be made at the earliest possible time.

Courses which are added or registrations which occur after the completion of the fourth week of classes must be paid in full prior to processing by the 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 fee or change of program fee, whichever is applicable, and the late payment fee.

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

Registration is not complete until cleared by the Cashier. Failure to pay tuition or fees when due, or to meet payments on loans when due, may result in cancellation of registration, legal collection efforts, and withholding of grades and transcripts. Outstanding financial obligations from 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):

Payable upon first-time enrollment in the Graduate College \$10.00

Tuition:

Per Semester Credit Hour

	Undergraduate	Graduate
Resident of Nebraska (see residency statute)	\$ 41.75	\$ 51.75
Non-Resident	\$113.25	\$123.25
Per Student Credit Hour through Off-Campus Program	\$ 52.00	\$ 62.00

Audit Fee:

The audit "not for credit" fee is set at one-half of the resident undergraduate or graduate tuition rate. For classes offered through the off-campus program, the audit "not for credit" fee is set at one-half of the

off-campus undergraduate or graduate tuition rate. In addition, students registering for audit must pay the appropriate UPFF fee. Registration for audit requires the permission of the instructor and is subject to available class space after credit registration ends. Students who register to take a course for credit and who later change to audit registration will be required to pay the full resident or non-resident tuition rate. Audit fees are refundable in accordance with the Tuition Refund Schedule.

Laboratory Fees:

Students enrolling for laboratory course sections are advised that laboratory fees are charged for laboratory courses in the following:

Art 200, 201, 330, 430 Laboratory Fee	\$10.00
Art 251, 336 Laboratory Fee	\$20.00
Ceramics Laboratory Fee	\$20.00
Communication 311, Photography Laboratory Fee	\$ 5.00
Electronics Laboratory 1 104	\$10.00
English Department Reading Laboratory Fee	\$ 3.00
Geography 103, 106, 107 Laboratory Fee	\$ 5.00
Geography 103 Field Trip	\$ 3.00
Geography 117, 118L, 275L, 276L, 310L, 345, 431 Laboratory Fee	\$ 5.00
Geology 117, 310 Field Trip	\$ 3.00
Instructional Technology Core 280	\$ 5.00
Music Instrument Usage (Rental) Fee	\$15.00
Physics 103, 105, 115, 116, 350, 352, 354, 356 Laboratory Fee	\$ 5.00
Preparation of Instruction Material LS 487/887M	\$ 5.00
Printmaking 351, 451, 453, 454 Laboratory Fee	\$20.00
Psychology 102	\$ 5.00
Psychology 323	\$15.00
Sculpture Laboratory Fee	\$20.00
Special Education 451, 452-Basic Practicum	\$ 5.00
Textiles, Clothing and Design 325	\$10.00
Vocational Business Education 108, 117, 118, 229	\$ 5.00

Special Instructional Fees:

Applied Music: Voice and all instruments	\$ 55.00
One semester credit hour	\$ 75.00
Two semester credit hours	\$115.00
Three semester credit hours	\$115.00

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.
Music Instrument Usage Fee \$ 15.00

University Program and Facilities Fee (UPFF)-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

This fee is assessed to every student each semester of which \$7.50 of each of these fees is a designated fee for Campus Recreation.

The UPFF receipts are divided into two separate funds: Fund-A Student Fees and Fund-B Student Fees. Fund-A Student Fees are established and allocated by the elected Student Government subject to the approval of the Chancellor of the University of Nebraska at Omaha in accordance with Board of Regents policy. Fund-A Student Fees are refundable upon request in accordance with guidelines and procedures established and published by the Vice Chancellor for Educational and Student Services. Students requesting and receiving a Fund-A refund will no longer be entitled to the student activities supported by Fund-A Student Fees.

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

Nebraska State Student Association (NSSA) Fee:

NSSA Fee (Full- or Part-time) per semester	\$.50
The NSSA fee receipts are for membership of UNO students who belong to the Nebraska State Student Association. The continuation of the fee is reconsidered each year. This fee is assessed to every student and is refundable each Fall and Spring Semester.	

Special Service Fees:

Transcripts of Academic Record—First copy	\$ 3.00
Additional copies—Same order	\$ 1.00

Thesis Binding—per copy	\$ 7.50
Change of Program Fee (per each class changed)	\$ 5.00
Cap and Gown Rental (to be arranged through the Bookstore)	TBA
Graduation Fee	\$ 3.00
Degree in Absentia (payable in addition to Graduation Fee)	\$ 2.00
Returned Check—per check	\$ 8.00

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

Teacher Placement Fees:

Registration and Credential Fee	
New Registrants	\$38.00
Fee covers establishment of permanent placement file, ten sets of credentials and the weekly Vacancy Bulletin may be obtained in the Office.	
Alumni Re-Registrants	\$45.00
Fee covers update of placement credentials information, addition of new recommendations, ten sets of credentials and the Vacancy Bulletin if picked up in the Office.	
Optional Services	
Vacancy Bulletin Mailing Fee	
3rd class mailing	\$16.00
1st class mailing	\$28.00
Bulletin may be mailed to your home address. Bulletin is published bi-weekly from October through January; weekly from February through August.	
Extra Credential Fee (over initial ten sets)	
Extra sets (each)	\$ 2.50

Late Fees and Penalties

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

Deposits:

Key (per key with authorization/refundable)	\$ 5.00
ROTC Uniform Deposit—Refundable	\$15.00
Locker Deposit—Refundable	\$ 7.50
HPER Building locker, lock and towel services are available to students and Campus Recreation Activity Card holders (Faculty/Staff). To renew lockers for the next semester or retrieve deposit and personal articles, it is necessary to personally come by HPER 100. Renewal and clearance dates are December 3, April 22, and July 29. Required of students taking HPER service classes. Also required of Faculty, Staff and students using Field House facilities.	
Chemistry Laboratory Deposit—Refundable	\$10.00

Testing Fees:

Credit by Examination, College-Level Examination Program (CLEP)	*\$30.00
Credit by Examination, per course (departmental)	**\$25.00
Correspondence Tests	\$ 5.00
Graduate Management Admission Test (GMAT)	\$30.00
Graduate Record Examination (GRE)	\$29.00
Law School Admission Test (LSAT)	\$70.00
Miller Analogies Test (MAT)	\$22.50
Test of English as a Foreign Language (TOEFL)	\$24.00

Refund Schedule:

Refunds are computed from the date application is received by the Registrar, NOT from the date of withdrawal from classes.

Students paying tuition and fees on a deferred payment basis or under any other loan granted by the University, who withdraw before the account is paid in full are not relieved from payment of the balance due. Refunds will first be applied to unpaid balances, and any remaining balance must be paid. Failure to do so may prohibit registration for future academic semesters.

Refunds for withdrawals are figured from the official beginning of the semester as stated in the University's academic calendar, not from the beginning of students' individual class schedules. Refunds will be made by University Warrant.

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.

Regular Semester

Period of Drop/Withdrawal	Percent Refunded	Percent Chargeable
Before first official day of semester	100%	0%
First week of classes	100%	0%
Second week of classes	75%	25%
Third week of classes	50%	50%
Fourth week of classes	25%	75%
Fifth week of classes	0%	100%

Summer Sessions (5 or 6 Week)

Before first official day of semester	100%	0%
First three days of classes	100%	0%
Remainder of first week	50%	50%
Second week of classes	25%	75%

Summer Evening and Special Contract (7 and 8 Week)

Before first official day of semester	100%	0%
First three days of classes	100%	0%
Remainder of first week	75%	25%
Second week of classes	50%	50%
Third week of classes	25%	75%

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

Withdrawal before classes start	100%	0%
Withdrawal before first week elapsed	50%	50%
Withdrawal before two weeks have elapsed	20%	80%
Withdrawal after two weeks have elapsed	0%	100%

Less Than 10 Weeks in Length

Withdrawal before classes start	100%	0%
Withdrawal before second class	50%	50%
Withdrawal after second class	0%	100%

*Plus 50 percent of resident tuition for credit earned.

**Plus 50 percent of resident tuition for credit earned. The \$25.00 testing fee will be applied to the tuition cost.

TRAVELING SCHOLAR PROGRAM

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

Graduate students at MASUA universities are eligible to participate in this program for up to two semesters or three quarters. The student's major adviser initiates the proposal for the student's participation by contacting the professor at another MASUA university where the student wishes to study. The Graduate Dean at each MASUA university involved must concur in the proposed participation. During the time of participation, the student registers for research or special topics credit for the appropriate number of hours and pays fees at the home university. Additional information concerning the MASUA Traveling Scholar Program is available in the Office of Graduate Studies.

INTERSTATE RECIPROCITY AGREEMENT FOR GRADUATE EDUCATION

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

FINANCIAL AID FOR GRADUATE STUDENTS

Presidential Graduate Fellowships

Each year two Presidential Graduate Fellowships are awarded to graduate students who are in the

final year of their programs. The Fellowships are designed to allow outstanding students to concentrate their efforts on the completion of their thesis or coursework and do not require the performance of any 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 the 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 should submit the name of their nominee, at least one letter of recommendation and the nominees'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 representative) will be charged with making a recommendation to the Dean for Graduate Studies and Research of three persons; two people plus an alternative.

Graduate Assistantships

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

A Graduate Assistantship entitles the holder to a waiver of tuition costs up to twelve hours of graduate credit per semester. Most Graduate Assistants are also eligible for tuition waivers during the summer sessions. Graduate Assistants may apply for a Graduate Assistant tuition waiver for undergraduate-level coursework that is required to meet a deficiency identified in the evaluation of the Graduate Assistant's application for admission and is the basis for provisional admission to the graduate program in the Assistant's respective department/area. The application must be recommended in writing by the adviser and departmental/area Graduate Program Committee; approval must be given by the Dean for 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 Assistants must be students in good standing in a degree program in the Graduate College. Dismissal from a graduate program for any reason shall result in simultaneous dismissal from any Graduate Assistantship position. The student will not be eligible for an Assistantship thereafter until fully reinstated in a graduate degree program.

II. Recruitment and Selection of Graduate Assistants

Each graduate department or other departmental/area unit as appropriate, which awards Graduate Assistantships, shall establish its own procedures for recruitment and selection in accordance with University policy on affirmative action/equal opportunity.

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

IV. Course Load

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

V. Duties

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

- (1) Teaching courses or discussion sections at the undergraduate level.
- (2) Instructing and supervising undergraduate level laboratories or tutorial sections.
- (3) Grading or otherwise evaluating academic performance of undergraduate students.
- (4) Collecting and/or processing research data for faculty members.
- (5) Preparing materials for laboratories or classroom presentations.
- (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 clerical duties.

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

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 and approved by the Dean for 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 grants, a brief statement of justification should be submitted for approval of the cognizant College Dean and the Dean for Graduate Studies and Research prior to being sent to the Vice Chancellor for Academic Affairs. This statement should contain: (1) qualifications necessary on the part of applicants; (2) expected duties; (3) relevance of the duties to the student's graduate training; and (4) justification for the Assistantship (as opposed to other job titles).

VIII. Deletion and Redistribution of Graduate Assistantships

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

Regents' Tuition Waivers

Regents' Tuition Waivers are available for a limited number of graduate students who have been admitted to graduate studies in a 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

Phi Delta Gamma, a national sorority for women, annually offers three scholarships of \$250 each to women graduate students who have completed approximately one-half of their graduate work with an excellent record. Application deadline is March 1; application forms are available in the Office of Graduate Studies.

The Gerontology 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's are based entirely on need; eligibility for this program is determined from information contained in a financial form which must be submitted to the Office of Financial Aid, 103 Epley Administration Building, no 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 form 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 that personal and unique potential, one may become involved in individual counseling, workshops, testing and test 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 responsibilities and working conditions, as well as required training and qualifications for hundreds of 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 for introducing them to a career development process that will lead to more effective career/educational planning.

The Career Development Center is located in 115 Eppley Administration Building, 554-2409.

Career Placement Services

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

Employment Counselors aid in assessing student career goals and related employment opportunities. Literature on local and national employers, career fields, job descriptions, salary surveys, employment trends and job-search techniques are also available.

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

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

Career Placement Services offers two basic programs:

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

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

Career Placement Services sponsors programs covering numerous career employment topics. Programs include groups, seminars or individual sessions. Job-Readiness Workshops are offered each semester to help students develop interviewing skills and job-search materials, i.e., letters of application, resumes and other items.

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

Counseling Services

Counseling services are provided to assist UNO students in their educational, emotional-personal and social development. The goal of the Counseling Center is to use all available resources to assist students in making positive adjustments in their academic and personal lives. Students use the Counseling Center to talk about concerns with courses, 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 early evening hours. Students are assured that their privacy will be respected. Conversations with a counselor are held in confidence.

Frequently students do not know where to seek assistance or are confused about kinds of assistance available. The Counseling Center acts as a referral agency for students—opening the availability of a large number of university 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 are not within the University.

The Counseling Center provides a professionally qualified resource team in assisting students to make academic, personal and vocational decisions with the assistance of various assessment 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 to a clearer understanding of themselves. Testing is provided by the UNO Testing Center after consultation with a counselor. Interpretations and explanations of the results of these tests are provided by counselors from the Center. Further examination of educational, personal and career opportunities can be developed from the exploration of information gained from the test results and counseling sessions.

The Counseling Center is located in 115 Eppley Administration and is open during the day and early evening hours with the exception of weekends and announced University holidays.

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, Miller Analogies Test, Graduate Management Admission Test, Test of English as a Foreign Language and Law School Admission Test. Graduate students also may utilize the Testing Center's aptitude, interest and psychological testing services. These exams are administered on a daily basis upon the recommendation of UNO Counseling Center personnel.

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

Student Part-Time Employment Services

UNO students seeking part-time employment should visit Student Employment Services in 111 Eppley Administration Building. Employment counselors are available to assist students in obtaining employment, matching job with career interests where possible. Emphasis is placed on developing job-search skills and interviewing techniques with the Student Employment Service acting as a liaison between employer and student.

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

Current listings of available jobs are posted on bulletin boards near the Student Government Office in the Milo Bail Student Center and in 111 Eppley Administration Building.

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

Special Programs

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

Handicapped Services: This service provides counseling to handicapped students as well as a forum to discuss and initiate needed services for the students. In compliance with the Rehabilitation Act of 1973 (Section 504) a handicapped student who is enrolled in a course located in a "non-accessible" room may request (1) to be transferred to another section of the course which is accessible or (2) to have the location of the course changed to an accessible room. Students may initiate requests for transfer of course sections or room assignment in the Office of the Registrar. Interpreter Services for the deaf are available to qualified applicants; for more information, contact the Office of Special Programs.

Learning Center: The Learning Center offers a variety of academic support skills designed to aid all students. Services offered at the Center include seminars, tutorials, study skills workshops and seminars, and class review sessions. Make certain to contact the Center to see when the activities you need to participate in are being held. The Center is located in 117 Eppley Administration Building.

Minority Student Services: Minority Student Services is a program unit which is a referral agent for persons seeking information and services at UNO and agencies located in the metropolitan area. The office disseminates information necessary in the coordination of activities involved with the racial/ethnic student population as well as those special interest groups organized on campus to serve them. Minority student services is also instrumental in providing cultural and academic programming for minority students at UNO. The service is located in 117 Eppley Administration Building, 554-2248.

Health Services: UNO Health Services, located in 132 Milo Bail Student Center, is available to all students and provides free First Aid treatment for minor illnesses and emergency accidents with referral when necessary. Preventive health measures are a primary concern and include blood pressure checks, vision and hearing tests, throat cultures for possible strep infection, a tuberculin skin testing program, plus scheduled clinics and programs on selected topics of interest. Health services is open Monday through Thursday from 8 a.m. to 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 senior.

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 First Summer Session	April 15
for Spring Semester	December 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 Sessions.

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 skill is 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

I. To a Degree Program

A. Unconditional Admission

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

1. has earned a baccalaureate degree from a regionally accredited institution;
2. has earned at least a "B" average in the undergraduate work in the proposed graduate major and minor (if applicable);
3. has earned at least fifteen semester hours of undergraduate work that meet specific requirements of the departments in the proposed major and minor (if applicable);

4. has submitted appropriate scores on the required aptitude or advanced knowledge tests to the Office of Graduate Studies.

B. Provisional Admission

Provisional admission to graduate studies may be granted to an applicant who has less than a "B" average in the undergraduate work in the proposed graduate major and minor (but in no case less than a "C" average). This admission may be granted for reasons of maturity, experience or other circumstances under which the student may be deemed capable of high quality graduate study. Provisional admission will not be removed until the student has earned at least the grade of "B" in each course involved in the first 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 with a "B" average, providing all other requirements are met.

Provisional admission may occasionally be granted to seniors at this University needing not more than nine hours of undergraduate credit to complete the baccalaureate degree and wishing to register for graduate credit, subject to their receiving their baccalaureate degree within the twelve-month period immediately following such registration. They must, however, apply for admission to graduate studies and, if admitted, they should register as graduate students. Seniors are allowed to enroll only in courses designated 8-J or 8-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.

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

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

II. To Unclassified (Non-Degree) Status

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

1. Are taking courses for professional growth or personal interest, but do not intend to pursue an advanced degree.
2. Are enrolled in a graduate degree program at another institution and wish to transfer credits earned at 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 obligate a graduate department/area to accept those courses for credit toward the fulfillment of degree requirements. Students who have enrolled under the Unclassified designation and who subsequently decide that they wish to pursue a graduate degree must complete and file a Request for Change form with the Office of Graduate Studies. If admission to a degree program is sought and granted, and the applicant petitions for the inclusion of graduate credit earned while holding Unclassified status, such course credit(s) may be accepted toward a degree at the discretion of the cognizant Graduate Program Committee. An approved Request for Change must be accompanied by a departmental recommendation if any specified credit hours earned while in the Unclassified status are to be counted toward the degree.

Special Permission to Register for Graduate Credit

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 necessary to complete their undergraduate work, provided that such credits are earned within the twelve months prior to receipt of the baccalaureate degree. Seniors are allowed to enroll only in courses designated 8-J or 8-M. Graduate course work taken prior to receipt of the baccalaureate degree may not always be accepted for transfer to other institutions as graduate work or for completion of degree requirements at the University of Nebraska at Omaha.

II. Temporary Admission

When unexpected circumstances preclude processing applications for Unconditional, Provisional or Unclassified admission, the Dean for Graduate Studies and Research may issue a Temporary Admission. A student enrolling with temporary admission must, within the first eight weeks of

the semester, furnish the Office of Admissions with all materials required by the cognizant department/area (including transcripts of all graduate and undergraduate work, one of which must show an earned baccalaureate degree or the equivalent, or a statement from the graduate office of another institution indicating that the student is in good standing in a graduate-level degree program at the institution). Students who fail to furnish such materials will be disenrolled by the Dean for Graduate Studies and Research from all graduate courses at the end of the eight-week period, and will not be permitted to attend classes beyond that date. Students seeking admission to a degree program must realize that even if all admission materials are presented, the Graduate Program Committee evaluating these materials may deny admission to the program. If this occurs, a determination will be made as to whether the student may continue graduate studies in the Unclassified status or will be disenrolled from all graduate courses.

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

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

REQUIRED APTITUDE OR ADVANCED KNOWLEDGE TESTS

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

A student with Unclassified status is not required to submit scores on aptitude or advanced knowledge tests. Admission requirements for each degree program are determined by the cognizant Graduate Program Committee. Some departments/areas require that the scores on all designated tests be submitted prior to admission; the applicant should consult the appropriate degree description section in this Graduate Catalog and contact the department/area about such requirements. Even when the scores are not required for the admission process, the UNO Graduate Faculty require that every student admitted to a degree program submit the score(s) on the designated test(s) during the first semester of enrollment.

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

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.

READMISSION 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 again 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 application for admission to candidacy for the degree as soon as they are eligible to do so. Each application should provide evidence that the student is capable of graduate-level performance and should contain a coherent plan of study leading to the degree that conforms to all policies of the UNO Graduate Faculty and of the cognizant graduate department(s).

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 in the same semester in which the student is admitted to candidacy for the degree.

Eligibility

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

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 within the University of Nebraska.
4. With no grade lower than a "C", a "B" average 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/area have been met.

Procedures

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

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

Guidelines for Construction of a Plan of Study

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

1. At least one-half the hours of non-thesis coursework on a plan of study should be in courses which are restricted to graduate students only (8—V or 9—).

2. A plan of study for an Option I Master of Arts or Master of Science degree should have at least six hours of thesis and a minimum of twenty-four semester hours of non-thesis coursework.
3. A maximum of fifteen hours of coursework used to satisfy the requirements of a previous degree may be applied toward the requirements 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-limit 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 time limit for degrees, etc.) in the plan of study or application, a memo explaining these irregularities and stating the recommendation of the Graduate Program Committee should be attached to the application.

Changes in the approved plan can be made after the admission to candidacy has been approved, as long as the 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 provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Students in many degree programs may elect a thesis option. In other programs all students are required to write a thesis.

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

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

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

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

FINAL COMPREHENSIVE EXAMINATIONS

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

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

If the student has a defined minor, the minor adviser may require that the student take a comprehensive examination over the minor field. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor adviser but falling within the limits established for all comprehensive examinations.

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

Results of comprehensive examinations must be submitted to the Office of Graduate Studies by the Graduate Program Committee no later than 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 at least temporary dismissal from the degree program or from graduate standing. In particular, any one of the following will result in automatic dismissal from the degree program for those students with Unconditional or Provisional admission to a degree program:

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 course-work taken, just as if all such courses were included in a graduate plan of study. A student will be automatically dismissed from all graduate standing should any of the above conditions occur.

A student who has been dismissed for failure to meet the Quality of Work standards may petition the cognizant Graduate Program Committee for any of the following:

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 readmit the student. The student will be informed by the Office of Graduate Studies of the Dean's decision on the reinstatement petition.

TRANSFER OF GRADUATE CREDIT

Approval of transfer of graduate credit for 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 received in courses for transfer of credit must be the equivalent of "B" or higher. Transfer of graduate credits from a course taken with a pass/fail option must be recommended by the cognizant Graduate Program Committee, supported by a written evaluation from the instructor and approved by the Dean for Graduate Studies and Research. All work accepted for transfer of credit must have been taken within the prescribed time limits for graduate degrees and is subject to restriction if previously used to satisfy requirements for another graduate degree.

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. In the Specialist in Education degree programs, six semester hours of work beyond the Master's level may be requested for transfer credit upon recommendation by the major adviser and with the approval of the Dean for Graduate Studies and Research. The total hours of transfer credit may not exceed the number stated except by petition submitted by the adviser, recommended by the cognizant Graduate Program Committee and approved by the Dean for Graduate Studies and Research.

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

INCOMPLETES

Purpose

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

Removal

Instructors must indicate by a departmental record, with a copy to the students, the means and the deadline by which an "I" is to be removed; and if they are at the University at the time of the removal,

they must supervise the make-up work and report the permanent 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 "I" on courses which are part of the degree requirements (except those taken in the final semester) must be removed at least twelve working days before conferral of the degree. Forms to remove grades of "I" should be submitted to the Office of Graduate Studies.

Accrual of Two or More Incompletes

Two or more "I" grades (excluding thesis or research courses) will result in a stop enrollment for any new courses; the stop enrollment will stay in effect until the record shows no more than one "I" grade. Grades of "I" must be removed within one semester (excluding summer sessions) after they have been awarded or they will be turned into a grade of "F" by the Office of Graduate Studies. Any extensions to the one semester limit must be approved by the Dean for Graduate Studies and Research prior to the time that the "I" reverts to an "F". In a limited number of cases some departments will allow longer than one semester for the removal of an "I" in specified courses; contact the department for details. "Incomplete" grades in thesis or research courses must be removed within two years of the date the "I" was awarded unless approval is granted by the Dean for Graduate Studies and Research for an extension and the student reenrolls for the credit.

TIME LIMIT FOR GRADUATE DEGREES

The last thirty-six hours of work on the plan of study for a Master's degree must be completed within six consecutive calendar years. The first day of class of the earliest course which appears on the last thirty-six semester hours of the 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 grade of the examination must be filed with the Office of Graduate Studies and must be a grade of "B" or higher; otherwise, the student shall be required to retake the course or to substitute another course in the plan of study.

OTHER POLICIES

Auditing Courses Offered for Graduate Credit

In order to audit courses for graduate credit, students must be admitted to graduate studies. Permission of the adviser and approval of the instructor of the course should be obtained prior to registration. It is the instructor's prerogative to determine privileges, including examinations connected with the course. Students registered for credit may change to audit registration during the first 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 should obtain the appropriate form from the Office of Graduate Studies; procedures are explained on the form. The decision as to whether students requesting a change will be accepted shall be left to the Graduate Program Committee of the department/area in which they are seeking admission. Students who have two or more grades of "Incomplete" on their records are not eligible to change degree programs.

Course Loads for Graduate Students

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

Students enrolling for more than twelve hours must have the approval of the Dean for Graduate Studies and Research.

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—/8—J (e.g., 317/817J) or 4—/8—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 seniors, with special permission, may enroll for graduate credit in such courses; see "Admission to Graduate Studies at UNO - Special Permission to Register for Graduate Credit".

8—U, 8—V or 9—

Courses with these numbers are open to graduate students only.

8—H

Courses with these numbers can not 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 practica, independent studies or research courses on which this option could apply. Inquire in the Office of Graduate Studies about the availability of this option for specific courses.

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

Dropping Courses

Students 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 FOR ACADEMIC MATTERS CONCERNING GRADUATE STUDENTS

Appeal of General Academic Matters Related to Student Programs

- A. Graduate students holding admission with unclassified status in the Graduate College, admission with a Master's objective or admission with a doctoral objective (but prior to the appointment of a doctoral supervisory committee) should appeal as follows:
 1. Initially, the appeal may be submitted to the student's adviser.
 2. If denied, the appeal may be submitted to the department/area Graduate Program Committee administratively responsible for the student's graduate program.
 3. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program. Normally, this will be the final appeals body (for exceptions, see paragraph E).
- B. Graduate students holding admission with a doctoral objective in the Graduate College and for whom a doctoral supervisory committee has been appointed should appeal as follows:
 1. Initially, the appeal should be submitted to the student's adviser.
 2. If denied, the appeal may be submitted to the student's supervisory committee.
 3. If denied, the appeal may be submitted to the department/area Graduate Program Committee administratively responsible for the student's graduate program.

4. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program. Normally, this will be the final appeals body (for exceptions, see paragraph E).

C. When a student's graduate program consists of registrations essentially or entirely on one campus, the Graduate Council of the campus administratively responsible for the program will constitute the appeal board. When a student's graduate program includes substantial registrations on a campus other than the one administratively responsible for the program, three members of the Graduate Council for the other campus will be designated by the Dean for Graduate Studies on that campus to augment the Graduate Council on the campus administratively responsible for the program. In this case, the augmented Council will constitute the appeal board. The decision concerning augmentation of a campus Graduate Council for a specific appeal involving registrations on a campus other than the one administratively responsible for the student's program will be made by the Deans for Graduate Studies on the campuses involved.

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

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

- E. 1. There is no absolute right of appeal to Committee III of the Executive Graduate Council. Committee III will accept appeals only in those cases where in the exercise of its sole discretion it shall first find that one or more of the following grounds for accepting the appeal exist:
 - a. That the campus Graduate Council has violated some element of fair procedure (example: has failed to allow the parties concerned to present their cases fully to their campus Graduate Council);
 - b. That the campus Graduate Council has failed to examine or give adequate weight to important evidence relevant to one party's position;
 - c. That the campus Graduate Council has given undue weight to evidence not pertinent to the case; or
 - d. That some gross miscarriage of justice would be perpetrated if the decision of the campus Graduate Council is allowed to stand.A decision by Committee III not to accept jurisdiction of an appeal shall be final and is not subject to further appeal.
2. Appeals to Committee III of the Executive Graduate Council must be made in writing and must specifically outline the grounds for appeal. Such appeal must be made within twenty working days of the day the decision of the campus council is received (working days shall not include those days the University is not in session).
3. Committee III of the Executive Graduate Council must make a decision to hear the appeal or not to hear the appeal within thirty working days after receipt of the appeal. Acceptance or denial of jurisdiction over the appeal will be made in writing.
4. The decision of the Committee on the merits of the case will be made and transmitted to the decisions of Committee III of the Executive Graduate Council either to decide whether the case should be heard or to decide the merits of the case.

Appeal of Grades in Graduate-Level Courses

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

The initiation of the appeal in writing by the student must be filed within six weeks following receipt of the grade from the Office of the Registrar.

DEGREE/CERTIFICATE REQUIREMENTS and COURSE DESCRIPTIONS

BIOLOGY

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 in 800 V-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, cleaning 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 of the temperate North American grass-

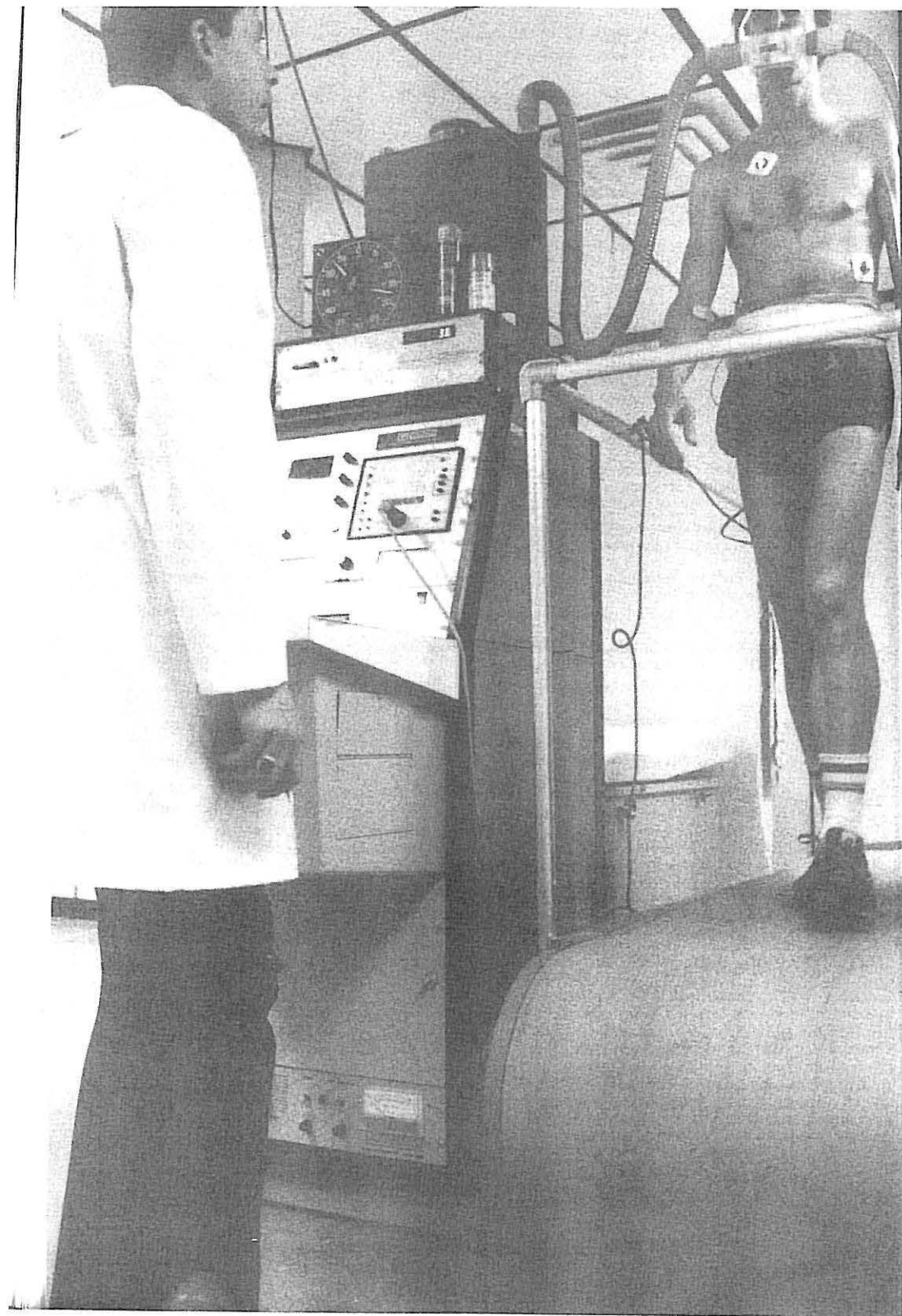
lands. Prereq: Biology 175.

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 and permission of the instructor. Biology 334/834J recommended.

413/813M Experimental Genetics (3) Labo-



ratory studies in genetics emphasizing experimental techniques and laboratory experience with a variety of organisms. Prereq: Biology 214, or permission of instructor.

414/814M Cellular Biology (4) This course is a comprehensive study of the structure and function of plant and animal cells. Prereq: Biology 145 and 175, organic chemistry, or permission of the instructor.

418/818M Limnology (4) A study of the physical, chemical, and biotic relationships that serve to 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, effects on flora, fauna, and the abiotic environment, and use in maintaining native ecosystems. Includes two, one-day, weekend field exercises. Prereq: Biology 334. Graduate standing in Biology or permission of instructor.

822M Population Biology (3) An examination of topics in population ecology and population genetics including selection on individuals and groups, mating systems, life history characteristics, growth and regulation of populations and population interactions. Outside research project required. Prereq: 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 for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. Prereq: Biology 175 and 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 experiences 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.

435/835M Lichenology (3) Taxonomy, morphology and ecology of lichenized fungi with laboratory emphasis on identification of the local species. Other topics for discussion will include symbiosis, air pollution and lichens, chemosystematics and modern herbarium techniques for lichens and other cryptogams. Prereq: Biol. 145 and permission of instructor, graduate standing in biology.

437/837M Phycology (3) A survey of the algae dealing with their ecology, morphology, physiology, taxonomy and evolution. Prereq: Biol. 145 or permission of instructor, graduate standing in

biology.

439/839M Vascular Plant Morphology (3) A survey of living and fossil vascular plants with emphasis on their comparative anatomy and morphology and their evolution. Prereq: Biol. 145 or equivalent, graduate standing in biology.

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

444/844M Plant Physiology (4) A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism and mineral nutrition. 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, growth, genetics and properties of selected groups. Prereq: Biol. 145 and organic chemistry, or permission of the instructor.

472/872M Experimental Endocrinology (2) Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: A course in endocrinology, concurrent registration in Biology 873M, or permission of the instructor.

473/873M Endocrinology (3) A survey of endocrine physiology stressing the regulative 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 instructor.

478/878M Vertebrate Zoology (4) A study of the general biology of the subphylum vertebrata including the morphology, anatomy, 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 495 or permission from instructor.

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

485/885M Developmental Biology (4) A study of the principles of development of multicellular organisms. Current concepts of interactions at the biochemical, cellular, and tissue levels will be included. Prereq: Biology 145 and Biology 175, 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 phylum Protozoa, including their morphology, physiology, reproduction, genetics and ecology with emphasis on free-living groups. Prereq: Biology 175, general zoology.

492/892M Parasitology (4) Taxonomy, morphology, physiology, life history dissemination, and control of the parasitic protozoans, helminths, and arthropods. Prereq: Biology 175.

494/894M Entomology (4) The study of insects, their classification, morphology, physiology, behavior, life histories, ecology, and evolution. Prereq: Biology 175.

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

496/896M Advanced Genetics (3) A survey of the current concepts in genetics with emphasis on new gene concepts, advances in cytogenetics and population genetics, and the application of genetics to other areas of biology. Lecture and discussion of selected readings. Prereq: Biology 214 or permission of instructor, Graduate standing in biology.

498/898M Ornithology (4) An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification and identification with emphasis on North American groups. Prereq: Biology 175.

801V Seminar in Biology (1) A study of current research in any of the divisions of biology. Graduate students will complete this course once for credit. Prereq: Graduate standing.

802V Problems in Biology (2) Research investigation in various areas of biology. Prereq: Sufficient work in biology and the ancillary sciences necessary to pursue adequately the area of investigation involved.

806V Current Topics in Zoology (2) Survey of the recent literature in one or more of the following areas of zoology: taxonomy, morphology, anatomy, ecology, physiology, behavior, zoogeography, enetics. Prereq: Graduate standing and permission.

818V Biosystematics (3) A study of principles and techniques in animal and plant biosystemat-

ics. The course will focus on the species problem and upon the experimental investigation of the problem. Readings, discussions, laboratory, and a written report. Prereq: Graduate standing in biology and permission of the instructor.

819V Communities and Ecosystems (3) Advanced study of populations, communities, and ecosystems; may require overnight trips. Prereq: Biol. 334/834J, permission of instructor, graduate standing in biology.

820V Plant Ecology (4) Advanced study of plant communities and of individual plant species including relationships with the environment and vegetative dynamics. Emphases on methods of evaluation and analysis. May require overnight field trips. Offered fall semester. Prereq: Biol 334/834J, permission of instructor, graduate standing in biology; Biol. 353/853J recommended.

823V Biomorphology (3) A study of the morphology and anatomy of organisms in relation to support, circulation, response, excretion and reproduction. Lecture, laboratory, selected readings, and a written report. Prereq: Graduate standing in biology and permission of the instructor.

833V 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 cytogenetic physiology. Lecture, laboratory, and written report. Prereq: Graduate standing in biology.

883V Environmental Physiology (3) A detailed study of selected dynamic environmental factors and mechanisms of physiologic adaptation by organisms of various taxa. Prereq: General physics, algebra, animal physiology, or permission of instructor. Graduate.

890V Scanning Electron Microscopy (3) Theory and use of the scanning electron microscope with special emphasis on biological applications. Included will be all aspects of specimen preparation, microscope function, darkroom techniques and interpretation of micrographs. Laboratory will emphasize individual student projects. Prereq: Graduate standing and written permission of the instructor.

899 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 intense educational experience for students who desire to assume positions of increasing responsibility in business.

Courses in the program give the students an understanding of the principles of management, marketing and finance and a proficiency in the use of accounting, computers, statistics, and quantitative methods as tools for analysis of business activities. Also, the student is made aware of the societal, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business. The primary emphasis of the program is placed on decision making and problem solving.

Admission Standards

The minimum admission standards for students in the MBA program are:

Junior-Senior GPA x 200 + GMAT = 1070

The GMAT score must not be below 450 in computing the above total. **There is no guarantee admission will be granted simply because the indicated points have been achieved.** Students are admitted on a provisional status until all foundation courses have been completed. GMAT scores must be received prior to the student's admission to the 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 818H or Macro- and Microeconomics at the undergraduate level
Accounting	BA 811H or 1 year of Principles of Accounting at the undergraduate level
Computers in Business	DS 231
Quantitative Methods and Statistics	BA 817H or an equivalent course in each at the undergraduate level
Production/Operations Management	MOB 350
Business Law	L&S 323
Corporation Finance	BF 325
Management Principles	MOB 349
Marketing	MKT 331

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

Courses successfully completed (A, B, or C grades) in the student's undergraduate program are considered as sufficient preparation. Otherwise, the student must include the course deficiencies in the program of study.

Students who through experience or self study consider themselves proficient in any of these areas may complete a "Satisfaction by Examination" in lieu of course work.

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
Option courses	12
Electives	6
	<hr/> 36

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

A thesis is required in one option (Real Estate) and may be elected in others. No comprehensive examinations are required. Instead, the integrative course 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	3 hours
BA 801V	Business and Society	3 hours
BA 810V	Managerial Economics	3 hours
BA 820V	Managerial Accounting (either ACC 821V or ACC 823V, if applicable)	3 hours
BA 831V	Human Behavior in Organizations	3 hours
BA 880V	Policy, Planning, and Strategy	3 hours

Option Courses

Option #1 — Business Administration

BA 830V	Environment of Management	3 hours
BA 840V	Marketing Policies	3 hours
BA 850V	Financial Management	3 hours
BA 805V	Business Conditions Analysis	3 hours

Option #2 — Marketing

BA 840V	Marketing Policies	3 hours
BA 841V	Promotional Policies	3 hours
BA 845V	Seminar in Marketing	3 hours

One of the following courses:

BA 802V	Research Methods in Economics and Business	3 hours
BA 805V	Business Conditions Analysis	3 hours

Option #3 — Decision Sciences

BA 802V	Research Methods in Economics and Business	3 hours
BA 803V	Business Information Systems	3 hours
BA 804V	Applied Quantitative Analysis	3 hours

One of the following courses:

BA 808V	Business Forecasting	3 hours
Econ 830V	Econometrics	3 hours
BA 890V	Independent Research (In Decision Science)	3 hours

Option #4 — Real Estate

BA 860V	Real Estate and Land Use Economics Theory	3 hours
BA 861V	Current Problems in Real Estate and Land Use Economics	3 hours
BA 899V	Thesis	6 hours

Option #5 — Economics

BA 805V	Business Conditions Analysis	3 hours
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Plus 9 hours from the following (no more than 6 hours of M-level courses may be included in the MBA program):

Econ 832M	Natural Resource Economics	3 hours
Econ 801V	Theory of Public Finance	3 hours
Econ 816V	Seminar in Labor Economics	3 hours
Econ 820V	Seminar in Micro Theory	3 hours
Econ 822V	Seminar in Macro Theory	3 hours
Econ 829V	Research Methods	3 hours
Econ 830V	Econometrics	3 hours
Econ 831V	Business Forecasting	3 hours
Econ 845V	Seminar in Money and Banking	3 hours
Econ 865V	Seminar in International Economics	3 hours
Econ 885V	Seminar in Urban Economics	3 hours

Option #6 — Management

BA 830V	The Environment of Management	3 hours
BA 835V	Seminar in Management	3 hours
BA 832V	Personnel Administration	3 hours

One of the following courses:

BA 803V	Business Information Systems	3 hours
BA 805V	Business Conditions Analysis	3 hours
BA 840V	Marketing Policies	3 hours

Option #7 — Banking and Finance

BA 850V	Financial Management	3 hours
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Plus 9 hours from the following:

BA 851V	Security Analysis	3 hours
BA 852V	Seminar in Investment Management	3 hours
BA 855V	Seminar in Finance	3 hours
Econ 845V	Banking and Financial Markets: Structure, Function and Policy	3 hours
BA 890V	Independent Research (in Finance)	3 hours

Option #8 — Industrial Psychology

BA 832V	Personnel Administration	3 hours
Psych 962V	Industrial Training & Development	3 hours
Psych 961V	Industrial Motivation & Morale	3 hours

Plus one of the following four courses:

Psych 909V	Theory of Measurement & Design	3 hours
Psych 814V	Nonparametric Statistics	3 hours
Psych 910V	Proseminar: Analysis of Variance	3 hours
Psych 911V	Correlation and Regression	3 hours

Option #9 — Individually Designed Program

A student under the guidance of the Director of Graduate Studies in Business and Economics with the approval of the Graduate Faculty of the College of Business Administration may develop an option of 12 hours of study.

A minimum of 21 semester hours must be completed in courses designated as business administration (BA). Also, at least 30 hours must be at the "V" level of graduate work.

Student Responsibilities

It is the responsibility of each student admitted to graduate studies to be familiar with the procedures and regulations of the Graduate Catalog.

Each student should also consult with the Director of the MBA program at least once each semester to assure continued progress toward the degree objective.

Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements. A maximum of 2 C's in graduate courses is permitted.

In selecting electives the student must be guided by the restriction that a maximum of 6 hours of "M" level courses may be included in the graduate program of study.

811H Survey of Accounting (3) The uses of accounting for purposes of control and decisions by managers, shareowners, creditors and others. This course cannot be used on a plan of study. Prereq: 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 multiplicity of applications to a wide variety of methods. This course cannot be used on a plan of study. Prereq: Graduate standing and one year of college mathematics.

818H Analytical Foundations of Economics (3) Fundamental principles of macro- and micro-economic theory for graduate students in business. The development of modern aggregate theory is examined along with an economic analysis of the business firm, its market structure, production possibilities, and cost factors. This course cannot be used on a plan of study. Prereq: Open to MBA candidates and other graduate students desiring this course. No credit is given to students having previously taken Economics 201 and Economics 202 or their equivalents.

809M Financial Auditing (3) Provides an in-depth coverage of the professional and technical aspects of financial auditing as performed by independent public accountants. Audit tools, audit program applications, and reporting obligations will be emphasized. Prereq: ACC 408.

456/856M State and Local Finance (3) An inquiry into the facts, techniques, principles, theories, rules, and policies shaping, directing, influencing, and governing the spending, taxing, debt, and utilities of scarce resources for state and local governments. Prereq: Econ 201 and 202.

800V Quantitative Analysis (3) The study of quantitative techniques and models and their application in business decision making. Prereq: DS 213 or BA 817H.

801V Business and Society (3) Exploration of the diversity of societal forces and pressures which produce continued transition in the system of American capitalism. Prereq: L&S 323, 446.

802V Research Methods in Economics and Business (3) A study of current research techniques in business and economics. The student will become familiar with these techniques through text material, journal studies and actual application. Prereq: DS 213.

803V Business Information Systems (3) A study of how computer-based information systems are constructed and of the opportunities and problems associated with this activity. Prereq: BA 800V.

804V Applied Quantitative Analysis (3) A collection of quantitatively-oriented models and techniques applied to a variety of business problems in a case study format. Prereq: BA 800V.

805V Business Conditions Analysis (3) This course is concerned with the statistical measurement and evaluation of general business conditions, and the adaption of business policies to changing business conditions. Emphasis is placed upon the practical application of the statistical techniques of analysis to the business situation, within the framework of the aggregate economy. Prereq: Econ 202 or BA 818H.

808V Business Forecasting (3) This course includes a comprehensive survey of forecasting methods and in-depth study of selected techniques most commonly used in business environments. Emphasis is given to application and therefore students will be required to develop forecasting models and test their performance as part of their course. Prereq: BA 800V or ECON 830M or permission of instructor.

810V Managerial Economics (3) Economic analysis of the business firm and its environment, with emphasis on market structure, pricing, production possibilities and cost factors. Additional consideration is given the theory of the firm under conditions of uncertainty. Prereq: Econ 201 and 202 or BA 818H.

820V Managerial Accounting (3) A study of concepts, analysis, and procedures of accounting utilizing internal financial and non-financial data which provides management with information for planning and controlling routine operations, for non-routine decision, policy making and long-range planning; and for external reporting to stockholders, governments, and interested parties. Prereq: Accounting Principles. Students with the equivalent of Managerial Accounting at the undergraduate level should enroll in BA 821V, BA 823V, or BA 825V. DS 213.

830V The Environment of Management (3) A study of current administrative philosophy and processes and their historical foundations. The course examines both the intra-organizational processes of managerial planning, decision making, organizing and controlling as well as the external environment's impact on these processes. A systems framework is used to examine the environment, which includes an examination of international factors on the practice of management.

831V Human Behavior in Organization (3) An interdisciplinary study presenting the major trends represented by a variety of theories of organizational behavior as well as major concepts and ideas of organizational psychology. Prereq: MOB 349 and written permission of the CBA Graduate Counselor.

832V Personnel Administration (3) Extensive treatment of the relevant developing theories, and coverage of certain new methods, techniques, and procedures that relate to personnel administration and human resource management. Efforts are made to select and present material to illustrate the practical, applied aspects of resource

management and personnel administration, as related to human problems in organizations. Prereq: BA 831V.

835V Seminar in Management (3) A student participation course emphasizing current issues and problems in the areas of management theory and operation. Prereq: BA 830V and BA 831V.

840V Marketing Policies (3) A marketing management approach to the determination of policies employed in solving problems in marketing. Prereq: Graduate standing and Marketing 331.

841V Promotional Policies (3) Analysis of the methods, research, and policies needed to develop and administer an effective promotional program. Prereq: Mkt 331.

845V Seminar in Marketing (3) Exploration, study and critical analysis of contemporary marketing problems, trends, methods and approaches for seminar discussion and written report. Prereq: BA 840V.

850V Financial Management (3) Examines basic aspects of managing the financial operations of an enterprise with emphasis on analysis, alternative policies for both short and long-term planning, and application and evaluation of various techniques of financial management. Prereq: BF 325.

851V Security Analysis (3) Study of the efficient market, fundamental and technical analysis approaches for the valuation of marketable securities. Methods of analysis are considered for the economy, industry groups, and individual corporations. Prereq: BF 325.

852V Seminar in Investment Management (3) Modern Portfolio Theory of investment management and its application in formulation of policies for individuals and institutional investors. Qualitative and quantitative analysis of the risks and returns of portfolio management using efficient market, fundamental, and technical analysis approaches. Prereq: BF 325.

853V Banking and Financial Markets: Structure, Function, and Policy (3) A comprehensive study of the structure and functioning of financial firms and markets; recent policies affecting the financial system; proposals for structural and functional changes of the financial system. Prereq: FIN 345 Money and Banking or FIN 435 Financial Institutions or equivalent.

855V Seminar in Finance (3) Selected topics

from areas of business finance. Prereq: BA 850V.

860V Real Estate and Land Use Economics Theory (3) This course brings together the best of the technical literature dealing with the development of advanced tools of analysis and concepts of Real Estate and Land Use Economics. The tools are presented and developed which assist real estate decision-makers in identifying and evaluating professionally the complex factors which determine real estate productivity, value, investment, and land-use patterns. Prereq: 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. Prereq: RE 241, RE 346, RE 440, and RE 441 or equivalent experience.

880V Policy, Planning and Strategy (3) A comprehensive study of business problems, prospects and opportunities at varying levels of organizations. The student is responsible for demonstrating interrelationships between the various disciplines of study. Only an A or B is considered an acceptable grade. Prereq: Taken in last 9 hours of MBA program.

890V Independent Research (3) Individual research in the field of accounting, finance, management, marketing, quantitative analysis or the environment of business. Maximum of nine hours of three different fields.

891V Special Studies in Business (1-3; may be repeated up to 6) A series of special courses each designed to focus on current major issues and developments in a specific area of Business Administration, scheduled as a workshop or seminar according to purpose. Prereq: Graduate student in good standing and as indicated for specific workshop or seminar.

899V Thesis (1-6) A research project, under the supervision of a faculty thesis adviser in the College of Business Administration, in which the student establishes his capacity to design, conduct, and complete an independent, scholarly investigation of a high order of originality. The research topic and the completed project must be approved by the student's faculty thesis advisor, and two other faculty members, one of which must be from outside the program area. Prereq: Permission of graduate advisor.

CIVIL ENGINEERING

Master of Science

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

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

The degree program is offered by the faculty of the merged departments of Civil Engineering at Omaha and Lincoln, and will be administered by the Graduate College, UN-L. Requirements for the Master's Degree will be as stated in the Graduate Studies Bulletin, University of Nebraska-Lincoln. Upon admission by the Graduate College, UN-L, student records will be maintained on the campus at

which the major portion of the graduate courses will be taken. Normally the faculty advisor will also be on that campus.

Graduate Committee. The Civil Engineering Department has a Graduate Committee of six faculty, selected from the Omaha and Lincoln campuses, appointed by the Department Chairperson and approved by the Graduate Dean, UN-L. The Graduate Committee has general supervision over the work of the candidates for the Master's degree. The committee may prescribe such tests as it deems necessary in order to determine whether an applicant is adequately prepared for graduate study. After all application materials are received by the Graduate College, UN-L, the chairperson of the committee will be asked to make a recommendation, after consultation with the committee, on admission to the Graduate College.

Admission to Candidacy
Options for the Masters Degree
Examinations

Consult current
Graduate Studies Bulletin
University of Nebraska-Lincoln

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 designated from any one of the related Civil Engineering areas, or from other related departments. Other supporting courses will be selected from advanced or graduate courses having some relation to the major group.

360/860M Transportation Engineering II

(3) Introduction to planning and analysis of multi-model transportation projects. Governmental activities in the finance and control of transportation. Basic rural 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 futuristic transportation modes. Prereq: For 360, junior standing or permission of the instructor. For 860M, graduate standing or permission of the instructor. Not available for graduate credit for engineering students.

400/800M Environmental Quality and Control - Land, Air, and Water

(3) Application of the principles of ecology, engineering, and planning for the control and management of the physical environment (land, air and water) including land and water ecosystems, air and water pollution, and environment planning. Prereq: For 400, senior standing. For 800M, graduate standing.

424/824 Chemical Analysis Laboratory

(1 to 3) Determination of the chemical characteristics of water and waste-water and evaluation of chemical treatment processes. Prereq: CE 226, 327 and 428 or 828 concurrently.

425/825 Biological Analysis Laboratory

(1 to 3) Determination of the microbiological and physical characteristics of water and wastewater and evaluation of the biological treatment process. Prereq: CE 226, 327, and 428 or 828 concurrently.

426/826M Environmental Pollution Control

(3) An introduction to the engineering principles of control of air pollution, solid wastes, and radioactive wastes in relation to the total environment. Interrelations of air, water, and land waste disposal methods are stressed. Prereq: For 426, junior standing in engineering or permission of the instructor. For 826M, graduate standing or permission of the instructor.

427/827 Design of Sanitary Treatment Facilities

(3) The step by step designs of treat-

ment facilities including preparation of plans and specifications. Prereq: CE 226, 327, and 428 or 828 concurrently.

428/828M Application of Chemistry to Sanitary Engineering (3) Applications of chemistry in the analysis and treatment of water and waste water (Lecture 2, lab 3). Prereq: CE 226, 327.

429/829 Applications of Microbiology to Sanitary Engineering (3) Applications of microbiology related to the treatment of waste waters, and the bacteriologic examination of water and waste water. (Lecture 2, lab 1). Prereq: For 429, Civil Engineering 327. For 829M, graduate standing and Civil Engineering 327.

834M Soil Mechanics II (3) Application of the effective stress principle to shear strength of cohesive soils; analysis of stability of slopes. Development of continuum relationships for soils; solutions for stresses and displacements for an elastic continuum, solution of the consolidation equation for various initial and boundary conditions. Prereq: Graduate standing and Civil Engineering 334.

836M Foundation Engineering (3) Subsoil exploration and interpretation; selection of foundation systems; determination of allowable bearing pressures from laboratory and field data; proportioning shallow foundations for bearing capacity and settlement; design of deep foundations; pile driving analysis; control of ground water. Prereq: Graduate standing, Civil Engineering 334; or equivalent.

441/841M Structural Analysis II (3) Analysis of statically indeterminate structures, including continuous beams, planar frames, and trusses. Numerical and classical methods of analysis, including an introduction to solutions by matrix methods. Effects of temperature and movements of supports. Influence lines. Relation of design to analysis. Prereq: For 441, Civil Engineering 340. For 841M, graduate standing.

444/844M Steel Design I (3) An introductory

course involving the application of the basic principles of mechanics of materials and the current practices in proportioning of structural members in steel. Prereq: For 444, Civil Engineering 340 or permission of the instructor. For 844M, graduate standing.

445/845M Structural Analysis III (3) Computation of stress resultants in statically indeterminate structures including beams, and planar and three dimensional frames and trusses using matrix formulations (Finite element method), advanced moment distributing techniques and column analogy. Consideration of shearing and axial deformation in addition to the usual flexural deformations. Effects of temperature and pre-strain, support displacements, elastic supports, and axial-flexural interaction. Prereq: For 445, Civil Engineering 441 and digital computer methods in engineering analysis. For 845M, Civil Engineering 841 and graduate standing.

446/846M Steel Design II (3) A continuation of Civil Engineering 444, but directed toward building systems. Steel and timber structural systems are studied. Prereq: For 446, Civil Engineering 444. For 846M, Civil Engineering 844 and graduate standing.

447/847M Reinforced Concrete II (3) The use of reinforced concrete design principles in special applications including columns and footings, and the study of additional design concepts including deflections, prestressing and torsion. Prereq: For 447, Civil Engineering 443. For 847M, Civil Engineering 843 and graduate standing or permission of the instructor.

448/848M Plastic Analysis I (3) Application of the basic principles of plastic analysis to frame structural systems, plastic collapse concepts, upper and lower bound theorems, and moment balancing are applied to various frame geometry. Member selection and deflection calculations. Prereq: For 448, Civil Engineering 441 or permission of the instructor. For 848M, Civil Engineering 841M and graduate standing or permission of the instructor.

450/850 Prestressed Concrete (3) Analysis and design of prestressed concrete members. Axial force, bending, shear, torsion, prestress losses, initial and long-term deflections. Partial prestressing. Statically indeterminate structures. Prereq: CE 441, 447 or 841, 847 and permission.

452/852M Water Resources Development (3) Theory and application of systems engineering with emphasis on optimization and simulation techniques for evaluating alternatives in water resources developments relating to water supply, flood control, hydroelectric power, drainage, water quality, water distribution, irrigation and water measurement. Prereq: For 452, Civil Engineering 351 or Civil Engineering 457 or equivalent. For 852M, graduate standing and permission of the instructor.

854M Hydraulic Engineering (3) Fundamentals of hydraulics with applications of mechanics of solids, mechanics of fluids, and engineering economics to the design of hydraulic structures, continuity, momentum, energy principles are applied to special problems from various branches of hydraulic engineering. Prereq: Graduate stand-

ing and permission of the instructor.

456/856M Advanced Hydrology (3) Advanced topics in hydrology including parametric and stochastic processes and systems analysis of hydrologic problems with particular emphasis on the application of techniques in the design of engineering projects. Prereq: For 456, Civil Engineering 351 or Civil Engineering 457 or equivalent. For 856M, graduate standing and permission of the instructor.

457/857M Engineering Hydrology (3) Introduction to the principles of engineering hydrology, with emphasis on the components of the hydrologic cycle; precipitation, evaporation, surface runoff, infiltration, drainage basin characteristics, streamflow, and precipitation runoff relationships. Emphasis is placed on utilizing these variables in forming engineering judgment. Prereq: For 457, Math 197 and EM 318 or equivalent. For 857M, graduate standing and permission of the instructor.

458/858M Ground Water Engineering (3) The application of engineering principles to the movement of ground water. The influence of the physical and geologic environment on ground water hydraulics, water well hydraulics and aquifer evaluation. Emphasis is placed on practical ground water engineering problems. Prereq: For 458, Math 197 and ME 318 or equivalent. For 858M, graduate standing and permission of the instructor.

461/861M Urban Transportation Planning (3) Development of urban transportation planning, objectives and goals, data collection procedures, land use and travel forecasting techniques, trip generation and assignment and modal choice analysis. Mass transit system design, operation and evaluation. Prereq: Upper class standing or permission of the instructor.

462/862M Airport Planning and Design (3) Principles in planning, locating and designing of airports. Analysis of airport financing, site selection and estimation of aeronautical demand, air traffic control and aircraft characteristics are discussed. Environmental effects of airports including noise and air pollution problems. Prereq: For 462, upper class standing and permission of the instructor. For 862M, graduate standing and permission of the instructor.

463/863M Transportation Geometrics (3) Functional design of transportation systems with emphasis on highway, railway and airport design considerations. Horizontal and vertical curves, sight distance, superelevation and intersection and ramp curve analysis. Design of highway interchanges, channelization and cross sections. Basics of airport, railroad, mass transit and pipeline design geometrics. Prereq: For 463, upper class standing and permission of the instructor. For 863M, graduate standing and permission of the instructor.

464/864M Traffic Engineering (3) Characteristics of traffic flow as influenced by the interaction of the driver, vehicle and roadway. Volume speed, delay, pedestrian and parking analyses. Traffic laws and ordinances, highway capacity, accident investigations, roadway illumination and traffic control devices. Prereq: For 464, upper

class standing and permission of the instructor. For 864M, graduate standing and permission of the instructor.

468/868M Portland Cement and Asphalt Concrete Laboratory (1) Laboratory and field procedures used to obtain portland cement and asphalt concrete for engineered construction. Prereq: For 468, EM 335 or equivalent. For 868M, graduate standing.

469/869M 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 469, CE 334 or equivalent. For 869M, 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.

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 Con-

trols (3) A course emphasizing accounting, costing and management control as related to construction and construction organization. The various relationships between the accounting and management aspects will be presented with emphasis on the informational and controlling segments of costing. Estimating, bidding, cpm, pert, computers and office procedures as they apply to costing and control will be discussed. Prereq: For 474, permission of the instructor. For 847M, graduate standing and permission of the instructor.

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

843M Reinforced Concrete I (2) A study of the principles of mechanics applied to reinforced concrete structural members. Emphasis is placed on flexure, shear, and bond. Prereq: Graduate standing.

899 Graduate Research (Thesis) (3-6)

999 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) Documentation (official transcript) of having earned at least (a) a 3.25 (re 4.00) grade point average in the undergraduate work in his/her proposed graduate major and minor, and (b) either a 2.75 over-all undergraduate average or a 3.00 average in the last half of the undergraduate credit hours; (3) Inclusion of at least 15 undergraduate semester hours of appropriate courses in communication arts and sciences including sufficient advanced (upper division) preparation in the area of graduate concentration.

Provisional admission may occasionally be granted for reasons of experience, maturity, or other circumstances to a student who has less than the grade point averages stipulated above — but in no case less than the provisional admission standards of the Graduate College, UNO. Applicants who have more than 6 semester hours of deficiencies will be advised to remove them before reapplying for any type of admission.

In every case of provisional admission for any reason *other than* (1) lacking admission test (MAT) scores, and/or (2) six or fewer semester hours of deficiencies, provisional admission will be recommended to the UNO Graduate Dean only after approval by at least two-thirds of the graduate faculty members in the Communication Department. If granted provisional admission with this special approval, the student must complete Communication 847V or 857V or 801V during the first enrollment period when one of these three courses is offered and pass it with a grade of B or higher.

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

- 1) Completion of prescribed course(s) — not for graduate credit — with a grade of B or higher.
- 2) Two written or documented-oral recommendations from persons who are in a position to evaluate the applicant's potential for graduate studies.
- 3) Pass such test(s) as these faculty members deem necessary in order to determine whether the applicant is adequately prepared for graduate study.

All students who major in Communication are required to complete the 12 semester hours of core courses prescribed by the Graduate Committee. These core courses provide a basic, intensive and broad coverage of communication as a field of advanced study, including foundations of both mass and transactional communication in conjunction with research and theory. The core courses are Communication 801V, 847V, 857V, and an elective theory or research seminar above the 800M level.

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

thesis option or the non-thesis option:

Thesis option:

Successful completion of 24 semester hours of coursework, plus a thesis (6 credit hours) based on a proposal approved by the student's committee. The completed thesis is defended orally before the committee. The student also takes a written comprehensive examination covering his or her major emphasis and minor or area studies.

Non-thesis option:

Successful completion of 36 semester hours of coursework, at least 18 hours of which must be in courses open only to graduate students. At least half of the 36 hours must be in the student's area of concentration. In lieu of thesis, and independent research or creative project, based on a proposal approved by the student's committee, may be formulated in writing, video, or film; plus a written comprehensive examination covering the student's major emphasis and minor or area studies.

801M History of Mass Communication

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

811M Rhetorical Theory and Criticism

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

817M Organizational Communication

(3) Communication in relation to problematic transactions within and between various types of organizations. Theoretical and practicable methodologies and procedures for comprehending and then preventing, alleviating, or solving communication problems in organizational settings will be emphasized. Prereq: An undergraduate major in Communication or permission.

822M Literary Aspects of Journalism

(3) Survey of the journalistic works of pertinent American writers through readings, lectures, discussions, plus creative writing assignments.

823M Public Relations (3) A study of the principles, problems and techniques of the public relations function through lectures, discussions and case histories.

824M Public Relations Case Studies

(3) Analysis, discussion and critique of actual public relations cases, involving problems relating to consumers, investors, employees, media and other publics. Prereq: Comm 423 or permission.

831M Political Broadcasting

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

834M Broadcasting History and Regulation

(3) A study of broadcasting in the United States through its regulatory history.

835M Issues in Broadcasting

(3) A study of current economic, legislative and sociological issues facing the American system of broadcasting.

837M Communication Workshop

(3) A workshop to explore communication theory and processes and to develop skills in their application.

838M 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.

840M Mass Media and Society

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

841M Communications Law

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

842M Theories of the First Amendment:

Speech and Press (3) An examination of freedom of communication in the United States with particular attention to freedom of the mass media and the many attempts at censorship. This course examines the philosophical and legal aspects of freedom of speech and press and the theories held by legal scholars. Prereq: Comm 441, 2.0 GPA, Engl. 116.

850M Mass Communication and Public Opinion

(3) A study of the philosophy, process and effects of mass communication in the U.S., the relationship between the mass media and public opinion, and the nature, function and measurement of public opinion.

851M Persuasion

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

852M Psycholinguistics

(3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech sounds. Prereq: Permission. (Same as Psy 452/852M)

853M Seminar in Cross-Cultural Communication

(3) This seminar will be directed towards understanding the components of cultural, subcultural, ethnic, and racial misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in

cross-cultural, subcultural, ethnic, and racial situations. (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. Prereq: Graduate standing and major in Communication, or permission.

855M Nonverbal Communication (3) A study of nonverbal communication in face-to-face, small group, speaker-audience, and mass media settings. Reading, research and illustrations 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. Prereq: Comm 112 or permission.

890M/891M Seminar in Mass Communication (3) A senior seminar applying historical and theoretical perspective to current issues and developments in mass communications.

801V Introduction to Research in Communication (3) Philosophy of scientific research, including process, components, and products; research methods, designs, and procedures in communication; preparation of a proposal; writing research reports. Prereq: Basic statistics (Psy 213 or equivalent).

802V 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. Prereq: Comm 801V or permission.

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

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

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.

847V Foundations Seminar: Transactional Communication (3) This seminar was designed for students preparing to take the major, a minor, or advanced seminars in Communication. Universals of human symbolizing processes (e.g., deleting, distorting, and generalizing) will be explored intensively and extensively. Principles underlying current issues in transactional (vs. Mass) communication will be emphasized by means of selections from recent developments and contemporary methodologies, including General Systems Theory, Modern Heuristic, and General Semantics. Prereq: Graduate standing and majoring 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. Prereq: Communication 847V or the instructor's permission.

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

898V Independent Research or Creative Projects (1-6) Non-thesis projects for majors in Communication supplementing advanced graduate courses. Prereq: Admitted to candidacy (or 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. Prereq: Comm 801V or equivalent, or basic statistics, or permission. (Same as Sociology 940.)

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, and Counseling in Gerontology.

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

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

Major points where students are evaluated with respect to their suitability for continuation in the program are 1) initial admissions 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 a requirement for graduation.

The Counseling and Guidance Program has admissions requirements and procedures in addition to those applicable to Graduate Studies as a whole, and prospective students are strongly encouraged to contact the Department regarding these admissions requirements and procedures. One such exception from the general Graduate Studies procedures are 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 faculty in the department.

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

Master of Arts

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

Master of Science

Specialization in Agency Counseling

I. Foundation Course		
FED 801V	Introduction to Research	3 hours
II. Required Counseling Courses		
COUN 890V	Principles of Guidance	3 hours
COUN 824V	Counseling Practices	3 hours
COUN 827V	Group Techniques	3 hours
COUN 820V	Counseling Theories	3 hours
COUN 830V	Counseling Techniques I	1 hour
COUN 831V	Counseling Techniques II	1 hour
COUN 842V	Vocational Counseling	3 hours
COUN 823V	Appraisal Techniques	3 hours
COUN 822V	Practicum	3 hours
COUN 825V	Advanced Practicum	4 hours
COUN 826V	Internship	3 hours
COUN 829V	Community Involvement for Urban Counselors	3 hours
III. Electives		5-9 hours
These courses are selected in consultation with advisor and in accordance with the student's particular background and interests.		

Usual Total Hours: 41-44 hours

Master of Science

Specialization in Secondary Counseling

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

II. Required Counseling Courses (30)		
COUN 822M	Vocational Decision Making	3 hours
COUN 890V	Principles of Guidance	3 hours
COUN 820V	Counseling Theories	3 hours
COUN 830V	Counseling Techniques I	1 hour
COUN 831V	Counseling Techniques II	1 hour
COUN 821V	Organization & Administration of Guidance Services	3 hours
COUN 823V	Appraisal Techniques	3 hours
COUN 824V	Counseling Practices	3 hours
COUN 822V	Practicum	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 Elementary Counseling

I. Foundation Course (3)		
FED 801V	Introduction to Research	3 hours
II. Required Counseling Courses (30)		
COUN 832	Counseling Elementary School Students	3 hours
COUN 890V	Principles of Guidance	3 hours
COUN 824V	Counseling Practices	3 hours
COUN 820V	Counseling Theories	3 hours
COUN 830V	Counseling Techniques I	1 hour
COUN 831V	Counseling Techniques II	1 hour
COUN 822M	Vocational Decision Making	3 hours
COUN 827V	Group Techniques	3 hours
COUN 822V	Practicum	3 hours
COUN 825V	Advanced Practicum	4 hours
COUN 823V	Appraisal 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 (3)		
FED 801V	Introduction to Research	3 hours
II. Required Counseling Courses (26)		
COUN 815V	The Student & Personnel Work in Higher Education	3 hours
COUN 820V	Counseling Theories	3 hours
COUN 830V	Counseling Techniques I	1 hour
COUN 831V	Counseling Techniques II	1 hour
COUN 823V	Appraisal Techniques	3 hours
COUN 824V	Counseling Practices	3 hours
COUN 827V	Group Techniques	3 hours
COUN 845V	College Student Personnel Internship	6 hours
III. Selected Cognate Courses (12-18)		
These courses are in accordance with the student's particular area of interest; i.e., admissions and registration, career counseling, placement and financial aid, student services (counseling, testing, etc.), and housing, student union activities.		
		Total: 38-44 hours

Master of Science

Counseling with Specialization in Gerontology

The Counseling Degree Program with Specialization in Gerontology is a cooperative effort of the Counseling and Special Education Department and the Gerontology Program. The UNO Gerontology Program offers courses leading to a Certificate in Gerontology. Students wishing to earn a degree in Counseling with Specialization in Gerontology must be admitted to the 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 890V	Principles of Guidance	3 hours
COUN 824V	Counseling Practices	3 hours
COUN 827V	Group Techniques	3 hours
COUN 820V	Counseling Theories	3 hours
COUN 830V	Counseling Techniques I	1 hour
COUN 831V	Counseling Techniques II	1 hour
III. Additional Courses in Counseling selected with advisor on the basis of student's background and interests.		
		9 hours
IV. Gerontology		
		9-15 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.		

Usual total hours: 41-48 hours

Special Education Programs

Master of Arts: Speech Pathology

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

- 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.
- Two letters of recommendation from people who know your undergraduate work well must be submitted to the department before the application shall be processed.
- Pass an examination to determine adequate personal voice and speech proficiencies and adequate hearing acuity for speech (Administered at the Speech and Hearing Clinic of the University).
- Have successfully completed a minimum of thirty-nine semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
 - SPED 140, Introduction to Communication Disorders
 - SPED 433, Speech Reading and Auditory Training
 - SPED 437, Hearing Disorders
 - SPED 438, Speech Science I: Speech Mechanisms
 - SPED 439, Hearing Science
 - SPED 442, Language Development in Children
 - SPED 443, Articulation Disorders
 - SPED 444, Rhythm and Symbolization
 - SPED 445, Speech Science II: Experimental and Applied Phonetics
 - SPED 450, Communication Disorders in the Elementary and Secondary Schools
 - SPED 451, Basic Clinical Practicum in Speech Pathology
 - SPED 475, Language Disorders in Childhood
 - PSY 213, Statistics
- 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 851V, Advanced Clinical Practicum in Speech Pathology (Schools)
 - SPED 852V, Advanced Clinical Practicum in Speech Pathology (externship)
 - SPED 846V, Diagnostic Methods in Communication Disorders
 - SPED 848V, Advanced Audiology
 - SPED 853V, Seminar in Speech Pathology
 - SPED 899, Thesis (6 hrs.)
 - II. Elective Courses:
 - Students may choose any of the courses in the area numbered 800V or above, contingent upon advisor approval.
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. The Miller Analogies Test (MAT) must be taken and scores submitted to the Special Education Department for consideration before applications are evaluated and processed to the Graduate College. A raw score of 35 on the MAT is required for initial entrance into the program.
2. Two letters of recommendation from people who know your undergraduate work well must be submitted to the department before the application shall be processed.
3. Pass an examination to determine adequate personal voice and speech proficiencies and adequate hearing acuity for speech (Administered at the Speech and Hearing Clinic of the University).
4. Have successfully completed a minimum of thirty-nine semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
 - SPED 140, Introduction to Communication Disorders
 - SPED 433, Speech Reading and Auditory Training
 - SPED 437, Hearing Disorders
 - SPED 438, Speech Science I: Speech Mechanisms
 - SPED 439, Hearing Science
 - SPED 442, Language Development in Children
 - SPED 443, Speech Pathology I: Childhood Language and Articulation
 - SPED 444, Speech Pathology II: Rhythm and Symbolization
 - SPED 445, Speech Science II: Experimental and Applied Phonetics
 - SPED 450, Communication Disorders in the Elementary and Secondary Schools
 - SPED 451, Basic Clinical Practicum in Speech Pathology
 - SPED 475, Childhood Language Disorders
 - PSY 213, Statistics
5. For those students who wish to work toward special state certification in the schools, advisor consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)
6. Thirty-six semester hours of coursework and practicum. These hours may be taken from the following:
 - I. Required Courses:
 - FED 801V, Introduction to Research
 - SPED 846V, Diagnostic Methods in Communication Disorders
 - SPED 848V, Advanced Audiology
 - SPED 851V, Advanced Clinical Practicum in Speech Pathology (Schools)
 - SPED 852V, Advanced Clinical Practicum in Speech Pathology (Externship)
 - SPED 853V, Seminar in Speech Pathology
 - II. Elective Courses in Communicative Disorders:
 - Students may choose any of the courses in the area numbered 800 or above.
 - III. Elective Courses in Related Area:
 - Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, speech, English, Special Education and other related areas, subject to advisor approval.
7. Pass a written comprehensive examination, administered under the direction of the Departmental Graduate Committee.

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

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

1. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) must be taken and 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 unless the student is hearing impaired or a non-native English speaker/user.
 - SPED 820M, History, Education and Guidance in Hearing Impairment 2 hrs.
 - SPED 822M, Teaching Speech to the Hearing Impaired 2 hrs.
 - SPED 823M, Language Development of Hearing Impaired Children 3 hrs.
 - SPED 824M, Teaching of Language to the Hearing Impaired 3 hrs.
 - SPED 837M, Basic Audiology 3 hrs.
 - SPED 838M, Speech Science I: Auditory and Speech Mechanism 3 hrs.
 - SPED 839M, Hearing Science 3 hrs.
 - SPED 800V, Special Projects 1 hr.
 - FED 801V, Introduction to Research 3 hrs.
 - SPED 870V, Seminar in Special Education 3 hrs.
 - SPED 872V, Basic Student Teaching 3 hrs.
 - SPED 873V, Advanced Student Teaching 3 hrs.

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

Master of Arts: Mental Retardation

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

Admittance and Retention Requirements

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

1. be admitted to the University of Nebraska Graduate College,
2. score a minimum of 35 on the Miller Analogies Test within the first nine hours of coursework,
3. demonstrate an interest in conducting research in mental retardation after an interview with the advisor, and
4. maintain at least a "B" in each course of the first twelve hours of coursework.

Course Requirements

Students shall complete the following coursework:

TED 801	Introduction to Research	3 hours
SPED 810	Psychology of Exceptional Children	3 hours
SPED 860	Introduction to Mental Retardation	3 hours
SPED 899	Thesis	6 hours

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

Master of Science: Teaching the Mentally Retarded

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

Admittance and Retention Requirements

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

1. be admitted to the University of Nebraska Graduate College,
2. 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

TED 801V	Introduction to Research	3 hours
SPED 810M or PSY 859M SPED 823M	Psychology of Exceptional Children Normal Language Development and Disorders for Teachers	3 hours 3 hours
or SPED 824M	Bilingual/Bimodal Language Development and Curriculum	3 hours
SPED 860M SPED 864M	Introduction to Mental Retardation Methods and Materials in Special Education	3 hours 3 hours
or SPED 867V	Methods of Instruction for the Severely/ Profoundly Handicapped	3 hours
SPED 865M or SPED 866M	Career Development for the Handicapped Developing Vocational Training Programs for the Seriously Handicapped	3 hours 3 hours
SPED 871M	Interactions Between Professionals and Parents of the Handicapped	3 hours
SPED 880M SPED 881M *SPED 872V SPED 891V	Emotional Development of Children and Youth Classroom Techniques for Behavior Control Basic Student Teaching Theory of Assessment and Diagnosis of Learning Deficits	3 hours 3 hours 3 hours 3 hours
or SPED 811V SPED 868V	Assessment and Curriculum in Cognitive Development for the Severely/Profoundly Handicapped Sensory Disabilities and Physical Handling in the Multiply Handicapped Child (required only for severely/multihandicapped certification)	3 hours 3 hours

*Student Teaching Notes: To meet K-12 certification, students with only elementary certification will be required to student teach at the secondary level. Students with only secondary certification will be required to teach at the elementary level. Those students with K-12 certification will select a site in consultation with their advisor. However, the student teaching requirement (SPED 872V) may not be fulfilled in the student's own classroom.

Master of Science: Teaching the Emotionally Disturbed

Students completing the Master of Science degree with a major in Teaching the Emotionally Disturbed will be prepared to design, implement, and evaluate educational programs for children who have been identified as Behaviorally Impaired or Emotionally Disturbed. Students completing this program will meet the State of Nebraska certification requirements for Behaviorally Impaired, and upon completion of the program, and two years of successful teaching will be recommended for endorsement to teach preschool through high school levels. Students who are eligible for Nebraska endorsement in Behaviorally Impaired based on previous work and who wish to earn the Master's Degree, may substitute 3 hours of thesis for 3 hours of practicum. Thirty-six (36) hours must be completed for the Master of Science degree in Teaching the Emotionally Disturbed. Students electing the thesis option will take SPED 899 thesis for 6 hours in place of electives. Students in the non-thesis option will sit for comprehensive examinations after consultation with their advisor. A written comprehensive examination is not required of students choosing the thesis option. Thesis option students will be required to answer questions about coursework completed in the master's program during their thesis defense.

Admittance and Retention Requirements

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

1. fulfill all entrance requirements of the Graduate College of the University of Nebraska,
2. obtain a score of 35 or better on the Miller Analogies Test during the first nine hours of coursework,
3. hold a Bachelor's degree with teaching certification in one or more teaching areas or complete the necessary deficiencies to hold certification,
4. demonstrate his/her writing ability by preparing and submitting a position paper,

5. have completed courses in learning theory - 3 hours, curriculum development - 3 hours, Psychology of Exceptional Child - 3 hours, and student teaching - 3 hours, and
6. maintain at least a "B" in each course of the first twelve hours of coursework.

Course Requirements

TED 801V	Introduction to Research	3 hours
SPED 823M	Language Development and Disorders for Teachers	3 hours
SPED 865M SPED 871M	Career Development for the Handicapped Interactions Between Professionals and Parents of the Handicapped	3 hours 3 hours
SPED 880M SPED 881M SPED 882V	Emotional Development of Children and Youth Classroom Techniques for Behavior Control Educational Strategies for Emotionally Disturbed Children and Adolescents	3 hours 3 hours
SPED 883V	Practicum in Teaching the Emotionally Disturbed	3 hours
SPED 884V	Advanced Practicum in Teaching the Emotionally Disturbed	3 hours
SPED 840VA SPED 891V	Introduction to Learning Disabilities Theory of Assessment and Diagnosis of Learning Deficits	3 hours 3 hours
Elective SPED 899	Thesis (thesis option only)	6 hours

Master of Science: Resource Teaching and Learning Disabilities

Resource teaching and learning disabilities is a specialized training program designed to prepare the graduate student to identify, diagnostically analyze and teach children who have specific learning deficits within a cross-categorical resource classroom setting. The student should enter the program with a background in learning theory, child growth and development, curriculum development, and methods and techniques of teaching. Upon successful completion of the program and two years of successful teaching experience students will be recommended for the Resource Teaching and Learning Disabilities endorsements in grades preschool through high school offered by the State of Nebraska. The students in the non-thesis option will sit for comprehensive examinations after completing twenty-eight (28) hours of coursework, excluding selected elective coursework, advanced student teaching and the school practicum. A written comprehensive examination is not required of students choosing the thesis option. Thesis option students will be required to answer questions about coursework completed in the master's program during their thesis defense.

Thirty-seven (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 credits rather than 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 deficiencies necessary to meet 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 - 3 hours and student teaching (or equivalent) - 3 hours, and
6. maintain at least a "B" in each course of the first twelve hours of coursework.

Course Requirements

The course requirements are:

TED 801V	Introduction of Research	3 hours
SPED 810M or PSY 858M SPED 865M SPED 880M	Psychology of Exceptional Children Career Development for the Handicapped Emotional Development of Children and Youth	3 hours 3 hours
SPED 881M SPED 840V *SPED 873V	Classroom Techniques for Behavior Control Learning Disabilities Advanced Student Teaching Preschool - 12	3 hours 3 hours 3 hours

SPED 891V	Theories of Assessment and Diagnosis of Learning Deficits	3 hours
*SPED 893V	School Practicum in Resource Teaching/Learning Disabilities	3 hours
SPED 896V	Advanced Diagnosis of Learning Deficits (Prerequisite SPED 891V)	4 hours
SPED 897V	Clinical Teaching in Learning Disabilities	3 hours
**SPED 899	Thesis (thesis option only)	6 hours
or		
Elective	(non-thesis option only)	3 hours

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

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

Counseling and Guidance

407/807M Crisis Intervention and Suicidology (3) A course which combines the application of crisis intervention theory to the most extreme 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/man-made disasters. Prereq: For 407, senior in teacher preparation program, human service area, or practitioner in community health center. For 807M, graduate standing.

422/822M Vocational Decision Making (3) This course is designed to acquaint students in the profession of teaching or school counseling with the specifics relevant to how people make vocational choices. Prereq: Senior, graduate school counseling major, or permission.

865M Career Development for the Handicapped (3) Curriculum oriented for teachers and related professionals to work with the career development of handicapped individuals. Includes information for elementary through adulthood with emphasis on intermediate and junior high school levels. Crosslisted with SPED 465/865M. Prereq: None.

475/875M Mid-life, Career Change, Pre-retirement Planning (3) This course is designed to involve students in the exploration of the developmental tasks of mid-life, myths and realities related to career change as well as the implication of preretirement planning. Factual information, as well as model examination and evaluation are presented to aid the student in becoming better equipped to understand some of the forces which affect the well-being of middle age persons as they prepare for the later years. Prereq: Junior standing/permission of the instructor.

479/879M Practical and Experiential Training in Counseling (½-6) An integrative course designed to acquaint students and practitioners with recent developments in the counseling profession. This course is repeatable up to a maximum of six hours of credit each time the conditions of this sequence are met. Prereq: Permission of instructor.

880M (Same as TED 880M) Guidance Skills for Educators (3) Course designed to familiarize educators with guidance activities of schools, the educator's role in these activities, and to develop appropriate guidance and listening skills. No credit for guidance majors. Prereq: Senior or Graduate.

498/898M Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for application in gerontology.

800V Special Studies in Counseling and Guidance (1-6) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

801V Teaching Models in Affective Education (3) A study of models of teaching in the affective areas of education; a variety of models will be explored with special emphasis on planning and implementing activities in classroom situations. Prereq: ELED 436 or SED 458 or permission of instructor.

805V Alcoholism Treatment Modalities (3) An examination of alcoholism treatment modalities. Special attention is given to comparison with regard to theoretical perspectives, techniques, and effectiveness. Prereq: Graduate 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 instructor.

810V Research Project in Counseling and Guidance (3) Individual or group study and analysis of specific problems/issues in the field. Prereq: Permission of the instructor.

812U Counseling With Parents (3) A course emphasizing techniques used in working with families. Prereq: COUN 825V or COUN 832V or permission of instructor.

815V The Student and Student Personnel Work in Higher Education (3) An overview of the characteristics of college students and their interaction with campus environmental influences. The impact of student personnel work is considered as it affects personality growth, social

development and career planning by college students. Prereq: FED 801V.

819U Research Project in Counseling and Guidance (2-3) Research study on a problem in the area of guidance and counseling. Prereq: permission of department.

820V Counseling Theories (3) Study of contemporary theories of counseling, the counseling process and methods. This course is to be taken concurrently with COUN 830V Counseling Techniques I and COUN 831V Counseling Techniques II. Prereq: COUN 824V, COUN 890V Principles of Guidance and concurrent enrollment in COUN 830V Counseling Techniques I and COUN 831V Counseling Techniques II.

821V Organization and Administration of Guidance Service in Secondary Schools (3) Study of organizational patterns and administrative practices in guidance and counseling programs. Prereq: COUN 890M or 892M.

822V Counseling Practicum (3) Supervised experiential training in counseling. Prereq: COUN 822M, 820V, 824V, 890V and permission.

823V Appraisal Techniques in Counseling and Guidance (3) Utilization of standardized and non-standardized appraisal techniques in counseling and guidance. Prereq: FED 801V.

824V Counseling Practices (3) The process of establishing a counseling relationship, utilizing different approaches appropriate to client concerns, and developing basic counseling skills. Prereq: COUN 820V, 822V, 823V.

825V Advanced Counseling Practicum (3-4) Continuation of COUN 822V Counseling Practicum. Prereq: COUN 822V.

826V Internship (3-6) Field experience in an approved guidance program under the supervision of a qualified counselor and a guidance professor of the university. Prereq: COUN 824V and permission of the department.

827V Group Techniques in Guidance (2-3) The group process with emphasis on the experiential aspect. Prereq: Permission of instructor.

828V Counseling Older Adults (2) Designed to provide basic information counselors need for work with older adults. For Counseling and Guidance Majors not specializing in Gerontology. Prereq: Counseling 890M, Principles of Guidance.

829V Community Involvement for Urban Counselors (3) A wide range of experiences dealing with the ecology of the urban disadvantaged and its effects upon counseling. Prereq: Admission to Counseling and Guidance, Criminal Justice, or Home Economics, or Instructor's approval.

830V Counseling Techniques I (1) Study of techniques related to contemporary theories of counseling. This course is to be taken concurrently with COUN 820V Counseling Theories and COUN 831V Counseling Techniques II. Prereq: COUN 824V, COUN 890V Principles of Guidance and concurrent enrollment in COUN 820V Counseling Theories and COUN 831V Counseling Techniques II.

831V Counseling Techniques II (1) Study

of techniques related to contemporary theories of counseling. This course is to be taken concurrently with COUN 820V Counseling Theories and COUN 830V Counseling Techniques I. Prereq: COUN 824V, COUN 890V Principles of Guidance and concurrent enrollment in COUN 820V Counseling Theories and COUN 830V Counseling Techniques I.

832V Counseling Elementary School Children (3) A study of the methods and techniques applicable in counseling young children. Prereq: COUN 820V, 831V.

833V Elementary School Counseling Practicum (4) Counseling in the elementary setting under the supervision of a counseling professor of the university. Prereq: COUN 832V and permission of department.

835V Elementary Counseling Internship (6) Field experience in an elementary counseling program under the supervision of a counseling professor and appropriate in-school personnel. Prereq: COUN 832V and permission of department.

837V Group Counseling Theory and Practice (3) A course designed primarily for counselors with a combination of theory and experiences necessary to the understanding of effective leadership skills involved in the group counseling process. Prereq: COUN 820V, COUN 823V, and COUN 827V.

842V Vocational Counseling (3) This course is designed to provide agency counselors with both practical and professional skills in the area of vocational counseling and decision making. Prereq: Agency Counseling Major or permission.

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

847V Practicum in Group Counseling (4) Supervised experience co-facilitating group counseling at an approved practicum site. Required as the third course for the cognate area of Group Work in Counseling. Prereq: COUN 837V and permission.

860V Parent Education (3) A study of several existing Parent Education programs. The students develop parenting skills by becoming involved as study group members. Students learn how to conduct Parent Education programs by serving as Parent Education facilitators/leaders. It is an experiential-oriented course. The understanding of family dynamics and human behavior are important components of this course. Prereq: Graduate standing.

861V Introduction to Marital and Family Therapy (3) This course is designed to acquaint students in the Human Services field with basic marriage and family counseling theory and techniques. Prereq: COUN 820V.

890V Principles of Guidance (3) The introductory course for students majoring in Counseling and Guidance. A study of the basic principles underlying Counseling and Guidance. Students will begin counseling skill development in this course. It will be taken concurrently with COUN

824, Counseling Practices. Prereq: Admission to Graduate College and Counseling and Special Education Department or permission.

891V (Same as TED 891V) Guiding Gifted Students (3) A course designed to increase teacher awareness of the social and emotional needs of Gifted Students. Teachers will also develop skills that will assist gifted students in meeting these developmental challenges. Prereq: Admission to graduate study.

896V Directed Readings in Counseling and Gerontology (1-3) A study of recent and current literature on counseling with older people. Prereq: Counseling Major and Coun-Gero 898M or permission of the instructor.

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

920 Independent Study in Counseling Theories and Techniques (1-3) Guided study of counseling theory and techniques under supervision of faculty member. Prereq: COUN 820V Counseling Theories or permission of instructor.

Special Education

401/801M Child Abuse/Neglect: What You Can Do (3) This course has been developed in conjunction with the Professional Interrelations Committee of the Child Abuse Council of Omaha. It is aimed at providing professionals in the greater Omaha area with skills necessary to recognize children who are abused and/or neglected as well as acquaint them with the wide array of services available to the abused/neglected child and the family.

404/804M Workshop in Special Education or Speech Pathology (1-6) The purpose of this course is to provide workshops or special seminars in the area of special education or speech pathology. Prereq: Determined by the instructor.

810M Psychology of Exceptional Children (3) A study of exceptional children and adolescents 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 PSY 859M.

411/811M Assessment and Curriculum in Cognitive Development for the Severely/Profoundly Handicapped (3) This course will involve a combination of lectures, demonstrations and practicum experiences designed to prepare the student to be able to assess cognitive development in the severely handicapped student, and apply that information to the development of individual educational plans for severely handicapped students. The course will include weekly presentations and practicum. Prereq: Graduate student, permission of instructor. Undergraduate student: Junior standing in special education. PSY 101 or PSY 351, CORE 210, 250, 280 or equivalents, and permission of instructor.

420/820M History, Education and Guidance in Hearing Impairment (2) An intro-

ductory investigation of hearing impairment and the education of the hearing impaired, historical development of the field, educational and social problems associated with impaired hearing, current educational strategies and programs, the vocational adjustment of hearing impaired individuals. For students beginning coursework towards provisional level certification in the area of hearing impairment. Independent study format. Prereq: Approval of instructor prior to registration.

422/822M Teaching of Speech to the Hearing Impaired II (2) A continuation of SPED 421, an investigation of diagnostic speech procedures used with hearing impaired children, the development of speech unit plans, the writing of individual speech prescriptions, the application of distinctive feature theory and generative phonology procedures to the teaching of speech to the deaf, and an in-depth study of the intonation patterns of English and methods employed in teaching them to hearing impaired students. For students preparing for provisional level certification as teachers of the hearing impaired. Prereq: SPED 821 and FED 801.

423/823M Language Development and Disorders for Teachers (3) An investigation 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 regular and/or special education teachers. Prereq: None.

424/824M Teaching of Language to the Deaf II (3) Continuation of SpEd 423 with further consideration of criteria for selection and utilization of teaching materials; special emphasis on language principles for the older deaf pupil. Prereq: For 424, Special Education 423 S.

433/833M Aural Rehabilitation (3) This course examines the research and methodology of speechreading and auditory training as they pertain to the hearing impaired child. Practice with and evaluation of popular tests and methods are experienced in a practicum setting. Types of aids and FM systems and techniques of troubleshooting these units are also presented. Prereq: SPED 839M and 837M.

435/835M Teaching Content Subjects to the Hearing Impaired (3) Consideration of problems in education of the hearing impaired; approaches to school subjects considered in detail.

437/837M Basic Audiology (3) Study of the pathologies of the auditory system and assessment of auditory disorders. Emphasis will be on various practical aspects of audiology for the communication disorders specialist. Competency will be accrued in performance of basic hearing tests. Prereq: For 437, SPED 439, 2.5 GPA; for 837M, SPED 839M.

438/838M Speech Science I: Speech Mechanisms (3) This course is an introduction to speech and hearing science and will present anatomy and physiology of the human communicative process. The mechanisms of respiration, phonation, and speech articulation will be explored from the biological standpoint. The course

is designed primarily for students in speech pathology, education of the hearing impaired, special education, and those teachers who work with the communication handicapped in education or rehabilitation settings. Prereq: For 438, junior standing, 2.5 GPA.

439/839M Hearing Science (3) This course is designed for undergraduate majors in speech pathology and audiology and for graduate students in education of the deaf. The purpose of the course is to introduce basic concepts important for understanding the process of human audition. The course will include basic terminology, anatomy and physiology of the hearing mechanism, acoustics and physics of sound, the processes of human hearing, elements of basic hearing measurement, psychophysics. Prereq: 938M, Graduate major in Deaf Education. Not available to Speech Pathology majors as a graduate course.

442/842M Language Development in Children (3) This course is designed to familiarize the student with normal aspects of language development in children, including inter and intra personal forces in language, major subsystems of language, and nonverbal and pragmatic aspects of language development. Prereq: None.

444/844M Rhythm/Symbolization (3) Study of etiology and descriptive classifications of rhythm and language symbolization disorders; assessment procedures; with special emphasis on rehabilitation procedures and methods associated with stuttering, cluttering, organic dysprosody, and aphasia. Prereq: 2.5 GPA.

445/845MM Speech Science II: Experimental and Applied Phonetics (3) Analysis of phonetic and phonetic elements in major American English dialects; practice in transcription of standard and defective speech, use of the sound spectograph, spirometer and other equipment. Prereq: For 445, junior standing. 2.5 GPA. (F,Su)

451/851M Basic Clinical Practicum in Speech Pathology (1-3) Minimum of 45 clock hours per credit hour of supervised practice in speech and hearing clinic; speech and hearing evaluation, therapy sessions, lesson plans, records, and a weekly colloquium. Prereq: For 451, Special Education 443 or Special Education 444. For 851M, graduate standing and permission of the instructor. (F, S, Su)

459/859M Disorders of Communication in Older Adults (3) This course is designed to familiarize the student with the identification and symptomology, basic assessment and intervention strategies associated with disorders of communication affecting older adults and geriatric patients. It is beneficial to students majoring in gerontology, or speech pathology, as an elective course or as a professional enrichment course for persons working in these or related fields. Students are assigned contacts with and written reports of contacts with an older adult who manifests a disorder of communication. Prereq: GERO 455/855M - Health Aspects of Aging, or permission of instructor.

460/860M Introduction to Mental Retardation (3) This modular competency based course covers background information on mental retardation; the needs of and services available for

the mentally retarded; the history of the field and its contributions; an introduction to teaching techniques and methods; the problems caused because of mental retardation in a family and society; and the status of and trends in the field of mental retardation.

464/864M Methods and Materials in Special Education (3) Individualized instruction and selection of appropriate methods and materials to meet educational programming needs for the mildly/moderately handicapped. Prereq: For 464, Junior standing, 2.5 GPA, SPED 303. For 864M, graduate standing.

465/865M Career Development for the Handicapped (3) Curriculum oriented for teachers and related professionals to work with the career development of handicapped individuals. Includes information for elementary through adulthood with emphasis on intermediate and junior high school levels. Crosslisted with COUN 865M. Prereq: None.

466/866M Developing Vocational Training Programs for the Seriously Handicapped (3) Directed toward teachers of secondary, post-secondary and adult handicapped persons to utilize vocational evaluation information, to develop training programs for seriously handicapped youth and adults, and to compare various curriculum models for serving seriously handicapped youth and adults. Prereq: SPED 820M or SPED 840V or SPED 860M or SPED 880M or permission.

471/871M Interactions Between Professionals and Parents of the Handicapped (3) This course includes interviewing parents of handicapped children, identifying both family and professional concerns, and a student project in one of four areas: (1) challenges of parenting the handicapped; (2) strategies for involving parents in planning, implementing, and evaluating handicapped child education plans; (3) curriculum/instructional/therapy modification for family use; and (4) professionals dealing with families of the handicapped. Undergraduate students will work with a family as the family goes through the process of obtaining appropriate services for their handicapped child. Prereq: SPED 301, 302, 303 (for undergraduates).

475/875M 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: Special Education 442 and 2.5 GPA.

480/880M Emotional Development of Children and Youth (3) The study of psychological, biological, and environmental factors that affect social and emotional development of children and adolescents. Emphasis is placed on causative emotional handicaps, symptoms and subsequent implications for design of the learning environment. Crosslisted with Curriculum and Instruction. Prereq: For 480, SPED 301 and junior standing.

481/881M Classroom Techniques for Behavior Control (3) This course will introduce the student to a variety of techniques for manag-

ing behavior in the classroom. Three major areas will be presented and specific techniques within each will be practiced both in the class and in the student's own teaching situation. Applications and adjustments of techniques will be accomplished in class. The course is intended for undergraduate students who are currently enrolled in student teaching and for graduate students who are currently teaching in elementary, secondary, or special education programs. Prereq: For 481, junior standing and student teaching; for 881M, graduate standing.

883 Practicum In Teaching Emotionally Disturbed (3) The first 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, SPED 880.

884 Advanced Practicum In Teaching Emotionally Disturbed (3) The second semester of participation in a clinical or classroom situation in the field of teaching the emotionally disturbed. The course is required for students in the program preparing to teach emotionally disturbed and is open to others who may be interested. Prereq: Successful completion of Steps I and II in the training program for teaching emotionally disturbed (see catalog).

800V Special Projects (1-3) Seminars, workshops, or independent studies on specific topics.

803V Teaching Handicapped Students in the Regular Classroom (3) This is a course designed to help regular classroom teachers work with mildly handicapped students placed in their regular classrooms. The emphasis will be on effective classroom strategies for working with students and techniques for communicating with special educators. Prereq: None.

810V Research Projects (3) Individual or group study and analysis of specific problems.

813V Diagnostic and Remedial Instruction in Reading (3) A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediation of reading disabilities. (F,S,Su) Prereq: SpEd 911 or 912.

814V Measurement and Evaluation of Reading (3) A clinic oriented course for advanced graduate reading students which will provide them with supervision and training in handling referrals, diagnosing specific reading problems, writing professional level case reports and general practices that are necessary for running an effective diagnostic reading clinic. (F,S) Prereq: SpEd 813V.

815V Clinical Practice in Reading (3) A laboratory-oriented course for advanced students in reading which will provide them with practicum training in the use of proper remedial reading techniques in order that they might qualify as reading specialists (F,S, Su) Prereq: Permission and SpEd 814V.

834V Seminar in Pediatric 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 several guest lecturers. Topics to be covered include behavioral audiometry, immittance tests, speech-perception tests, electrophysiological tests, amplification problems, habilitation of the hearing impaired, hearing and immittance screening, and techniques for evaluating the difficult-to-test. Prereq: SPED 848V or permission.

840V Learning Disabilities (3) Study of specific learning disabilities among children; review problems of terminology, criteria, and definition; causal factors of learning disabilities; evaluative techniques for identification of the problem; therapy techniques for habilitation or rehabilitation of children with specific learning disabilities.

842V Advanced Studies in the Disorders of Voice (3) Types and causes of voice disorders; rationale for case selection; cleft palate; special emphasis on rehabilitation procedures associated with individual involvements; practicum. (F)

843V Advanced Studies in the Disorders of Rate and Rhythm (3) Types and causes of rate, rhythm and stress pattern disorder; rationale for case selection; survey of stuttering theories and therapies; special emphasis on rehabilitation procedures associated with individual involvement; practicum. (S)

844V Advanced Studies in the Disorders of Aphasia and Related Problems (3) Types and causes of language symbolization disorders; rationale for case selection; childhood aphasia and autism; special emphasis on rehabilitation procedures associated with individual involvements; practicum. (S)

845V Current Practices in Speech Pathology This course provides for study and experience in speech therapeutic programming utilizing behavioral modification techniques based on Skinnerian-behaviorist principles. It includes a review of current literature and emphasizes operant articulatory and language remedial procedures. (Su) Prereq: SpEd 850M.

846V Diagnostic Methods in Communicative Disorders (3) Tests and procedures for evaluating individuals with speech disorders; principles in differential diagnosis and report writing; observation during evaluation periods in speech and hearing centers. (F) Prereq: Graduate standing and 6 hours of speech pathology.

847V Speech Science III: Neurophysiology of Speech and Language (3) Introduction to human neuroanatomy and neurophysiology. Emphasis is placed on gaining familiarity with the brain mechanisms and sensory and motor functions which underline human communication and its disorders; individual projects. (F,Su)

848V Advanced Audiology (3) This course is intended for graduate students majoring in speech pathology. It is designed to present information pertinent to clinical certification of the speech pathologist. Course content includes specialized techniques applicable to the assessment and diagnosis of auditory dysfunction. Application of basic hearing techniques combined with special tests for assessment of site of lesion will be

stressed. The use of case histories, otological considerations, identification audiometry, and equipment maintenance will be considered. Prereq: SPED 437.

850V Basic Clinical Practicum in Speech Pathology (3) This course in practicum follows the course 451 which is the student's first experience in clinical practicum. It is designed to give graduate students who need more than one semester of closely supervised practicum an opportunity to get this experience before being placed in a setting away from the university. (F,S,Su) Prereq: Permission and SPED 451 or equivalent.

851V Advanced Clinical Practicum in Communication Disorders (Schools) (3) This course provides the student with an "externship" experience for clinical practicum in a school setting with a cooperating clinician serving children in a typical school program. A minimum of 130 clock hours of work is required for credit. Prereq: SPED 451 and graduate standing.

852V Advanced Clinical Practicum in Communication Disorders (Hospitals and Rehabilitation Centers) (3) The second semester of advanced clinical practicum. The student is placed in an "externship" setting with a cooperating clinician working in a hospital, rehabilitation center, or a unique school program serving a special population of children. A minimum of 130 clock hours of work is required for credit. Prereq: SPED 851V.

853V Seminar in Speech Pathology (3) Student selects and investigates three different areas of current concern in speech pathology; initial survey, annotated bibliography, presentation of observation and conclusions, seminar discussion of findings. Instructor will base his lectures on topics chosen by students for study; clinical demonstrations of selected voice, speech and language problems. (S,Su) Prereq: Eighteen hours of graduate speech pathology.

854V Cleft Palate (3) This course in speech pathology is designed for graduate students and public school speech clinicians. This course is designed to expose students to the problems of communication by which the child with a cleft of the palate is confronted. Developing competencies for remediation procedures and methods will be the primary aim of the course. (S)

855V Alaryngeal Speech Rehabilitation (2) Problems of voice and speech rehabilitations for the individual without a functional larynx; social, emotional, and medical considerations as well as clinical procedures for esophageal, pharyngeal and buccal speech; implications for use of artificial larynx; current research pertinent to this area. (F) Prereq: Graduate standing and 6 hours speech pathology courses including voice problems.

856V Speech Problems of Cerebral Palsied Children (3) Identification of types of cerebral palsy by a location of lesion, motor symptomatology, and additional handicaps; the role of the speech clinician on the team; types of speech therapy, with special emphasis on the bobath approach; current research and controversial issues will be discussed. (S) Prereq: SpED 847V.

861V Teaching Severely/Profoundly Handicapped (6) This course/workshop is intended for special educators and educational/medicine support personnel (PT, OT, Speech Path) working with students with severe, profound or multiple handicaps in school settings. This course is designed to familiarize students with concepts, terminology, professional issues, resources and teaching strategies as a basis for professional communication and educational programming for this handicapped population. Particular emphasis will be placed upon developmental content in the areas of motor, cognitive and communication development for development ages birth to five years. Prereq: SPED 460/860.

863V Curriculum Planning for the Disabled (3) This is a modular competency-based course where students study the terminology of curriculum, its goals and aims, objectives and taxonomies, curricular development, units and lesson plans, task analysis assessment and evaluation, and programming. Projects, small-group discussion, and a final test make up the evaluation techniques used in this class.

867V Methods of Instruction for the Severely/Profoundly Handicapped (3) This course will involve a combination of lectures, demonstrations and practicum experiences designed to prepare the student to be able to concretize assessment principles into written behavioral objectives and written task analysis. Demonstration of competency in course objectives will be evidenced by collecting, measuring and graphing data on the written objectives and tasks. Prereq: SPED 860, 806 or permission of instructor.

868V Sensory Disabilities and Physical Handling in the Multiply Handicapped Child (3) This course will include overviews of typical sensory development and physical handling, including the discussion and illustration of educational implications of sensory disabilities and motor problems in the child with multiple handicaps. Application of principles to educational intervention will be stressed. Prereq: SPED 860 or equivalent or permission of instructor.

870V Seminar in Special Education (3) Graduate course primarily for special education majors and professional workers in the fields of speech and hearing, teaching the deaf, teaching the mentally retarded, remedial reading and teaching the physically handicapped. Familiarity with philosophy, major literature and practices in each area; student will research and present a paper reflecting current professional practices.

872V Basic Student Teaching (3) Classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar. (F,S,Su)

873V Advanced and Student Teaching (3) A second semester of classroom experience with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar. (F,S,Su) Prereq: SPED 872V.

882V Educational Strategies for Emotion-

ally Disturbed Children Adolescents (3) This course is designed for the professional teacher who is teaching or preparing to teach emotionally disturbed children and adolescents. The course will examine the causes and characteristics of a variety of maladaptive behaviors with a view toward identifying the child's needs and stressing the design of educationally therapeutic response systems. Prereq: SPED 840M, 880M, 881M.

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 presenting some of their techniques for assessing the developmentally disabled child and also presenting methods that can be utilized in intervention with the developmentally disabled child. (S) Prereq: 806V.

890U Administration and Supervision of Special Education (3) Problems of organization, administration, and supervision of special education programs; finance, federal involvement, legislation, litigation, due process, intermediate educational units, accountability and physical facilities will also be presented. Prereq: Graduate standing.

891V Theory of Assessment and Diagnosis of Learning Deficits (3) This course introduces the graduate student to a model assessment and diagnosis that describes both the quantitative and qualitative relationship between learning ability and academic achievement. Prereq: SPED 840 and permission. For E.D. and L.D. majors, the completion of STEP I. Basic Diagnosis of Learning Deficits.

893V School Practicum in Resource Teaching/Learning Disabilities (3) This course provides the graduate student with either inservice or placement in a school program for the

learning disabled or in a resource room setting and at a level commensurate with the student's desired level of endorsement (pre-school kindergarten, elementary, middle school, or secondary). Prereq: Step I and permission.

896V Advanced Diagnosis of Learning Deficits (4) The purpose of this course is to provide the student with indepth practicum experiences in the administration and interpretation of normative referenced evaluative measures (non-psychological), criteria referenced tests, and informal diagnostic teaching probes. Prereq: SPED 891

897V Clinical Teaching in Learning Disabilities (3) Theoretical and limited practical knowledge of a particular kind of teaching; which is to tailor learning experiences to the unique needs of children who have specific learning disabilities. The student learns of the flexibilities and continuous probing needed for individualized instruction. (F,S,Su) Prereq: SpEd 895.

899 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) This course provides participation in various clinical or classroom situations in the field of special education. The course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student. (F,S) Prereq: Master's degree and acceptance in the ed spec program.

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. (S) Prereq: 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 Science area at the undergraduate level. Those students lacking these requirements will be required to make up these deficiencies during the first year of graduate work.

Master of Arts

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

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

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

Elective Criminal Justice Courses

(student selects five (5) courses with advisor approval)	15 hours
804V	Seminar in Police and Society
805V	Seminar in Corrections
806V	Seminar in the Criminal Court System
807V	Seminar in Criminal Law and Procedure
808V	Seminar in Juvenile Justice
809V	Seminar in Theoretical Criminology
810V	Criminal Justice Organization, Administration, and Management
811V	Criminal Justice Planning and Change
819V	Independent Study
820V	Special Problems in Criminal Justice
831M	Correctional Law
835M	Community Based Corrections
899V	Completion and Successful Defense of Thesis
	6 hours

*All courses, except 800V, carry three hours credit.

Master of Science

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

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

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

Elective Criminal Justice Courses

(student selects five (5) courses with advisor approval)	15 hours
804V	Seminar in Police and Society
805V	Seminar in Corrections
806V	Seminar in the Criminal Court System
807V	Seminar in Criminal Law and Procedure
808V	Seminar in Juvenile Justice
809V	Seminar in Theoretical Criminology
810V	Criminal Justice Organization, Administration and Management
811V	Criminal Justice Planning and Change
819V	Independent Study
820V	Special Problems in Criminal Justice
831M	Correctional Law
835M	Community Based Corrections
	12 hours

Elective Cognate Courses

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

Master of Science (Public Administration Option)

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

Required Core Courses	9 hours
800V	Professions in Criminal Justice
801V	The Nature of Crime
802V	Seminar in Administration of Justice
803V	Criminal Justice Research Theory and Methodology
Required Public Administration Courses	12 hours
805V	Survey of Public Administration
844V	or Seminar in Organizational Development in Public Agencies
840M	Public Budgeting
848V	or Seminar in Public Financial Administration
841M	Public Personnel Management

846V or Public Personnel Administration (if credit has been earned in PA 441)
842V Seminar: Introduction to Public Organization

Elective Criminal Justice Courses

(student selects five (5) courses with advisor approval)

15 hours

- 804V Seminar in Police and Society
- 805V Seminar in Corrections
- 806V Seminar in the Criminal Court System
- 807V Seminar in Criminal Law and Procedure
- 808V Seminar in Juvenile Justice
- 809V Seminar in Theoretical Criminology
- 810V Criminal Justice Organization, Administration and Management
- 811V Criminal Justice Planning and Change
- 819V Independent Study
- 820V Special Problems in Criminal Justice
- 831M Correctional Law
- 835M Community Based Corrections

Satisfactory completion of the comprehensive examination is also required.

Master of Science (Counseling Option)

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

Required Core Courses

- 800V Professions in Criminal Justice 9 hours
- 801V The Nature of Crime
- 802V Seminar in Administration of Justice
- 803V Criminal Justice Research Theory and Methodology

Required Counseling Courses

- 824V Counseling Practices 6 hours
- 890V 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:

- 827V Group Techniques in Guidance
- 837V Group Counseling Theory and Practice
- 807M Crisis Intervention/Suicidology
- 820V Counseling Theories

Elective Criminal Justice Courses

(student selects five (5) courses with advisor's approval)

15 hours

- 804V Seminar in Police and Society
- 805V Seminar in Corrections
- 806V Seminar in the Criminal Court System
- 807V Seminar in Criminal Law and Procedure
- 808V Seminar in Juvenile Justice
- 809V Seminar in Theoretical Criminology
- 810V Criminal Justice Organization, Administration, and Management
- 811V Criminal Justice Planning and Change
- 819V Independent Study
- 820V Special Problems in Criminal Justice
- 831M Correctional Law
- 835M Community Based Corrections

Satisfactory completion of the comprehensive exam is also required.

431/831M Correctional Law (3) The law of corrections as it pertains to the institutionalized and community-based offender will be considered. Legal issues relating to sentencing (including the death penalty), prisoner's "rights" in institutions and community-based corrections, procedural protections before the loss of offender "rights" and restoration of civil rights will be examined. Prereq: None.

435/835M Community Based Corrections (3) A course for advanced students with special interest in the correctional process as app-

lied in a community setting. It is designed specifically to focus on probation, parole, and other current community based strategies for dealing with the offender. Prereq: None.

800V Professions in Criminal Justice (0) A required non-credit course for graduate students in criminal justice. Intended to familiarize the beginning graduate student with the criminal justice profession including such topics as the historical development of the field of criminal justice, professional organizations, job opportunities, and the use of reference materials. Prereq:

Admission to 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 included are the epidemiology of crime, the costs of crime, and typologies of crime and criminals. Prereq: Graduate standing and permission of instructor.

802V Seminar in Administration of Justice (3) This course is designed to provide students with a critical understanding of responses to crime. Particular emphasis is placed on theory and research bearing upon the effectiveness of the policies and strategies of the principal institutions of the criminal justice system - the police, courts and corrections. Additionally, philosophical and practical matters pertaining to "justice" and "fairness" in the administration of the criminal law are explored. Prereq: Graduate standing and permission.

803V Criminal Justice Research Theory and Methodology (3) Research theory and methodology in the social sciences as applicable to criminal justice; preparation of research designs, conceptual models; sampling procedures; and development of individual research papers. Prereq: Graduate standing and permission.

804V Seminar in Police and Society (3) This course is designed to explore the role of police in American society. Attention is given to the origins of policing, the nature of police organizations and police work, and patterns of relations between the police and the public. The values of a democratic society as they affect the law enforcement role are discussed. Prereq: Graduate standing and permission of instructor.

805V Seminar in Corrections (3) This course is designed to give an analytical perspective to the history, development, implementation, and future of critical issues in the field of corrections. Primary focus will be directed toward an exploration of the various theoretical approaches to corrections and the research intended to support or refute these perspectives. Prereq: Graduate standing and permission of instructor.

806V Seminar in the Criminal Court System (3) This course is designed to provide a social science perspective on the role of the courts in the criminal justice system. The ideals of the system will be compared with actual functioning, and court reform programs and proposals will be critically examined. Prereq: Graduate standing and permission of instructor.

807V Seminar in Criminal Law and Procedure (3) This course is designed to examine substantive criminal law as the basis of social con-

trol in our country. Contemporary issues such as the insanity defense, decriminalization of so-called victimless crimes, sexual assault and abortion, and current proposals to assist victims of crimes will be among the topics explored. In addition, current criminal procedure problems relating to right to counsel, search and seizure, and interrogation will be examined. Prereq: Graduate standing and permission of instructor.

808V Seminar in Juvenile Justice (3) An inquiry in the social ramifications of the entire juvenile delinquency process including labeling, detention, incarceration and tolerance. Pre- and post-adjudicatory issues are dealt with as well as a realistic perspective given to delinquency prevention strategies. Prereq: Graduate standing and permission.

809V Seminar in Theoretical Criminology (3) A study of the etiology of crime as a social phenomenon and an objective analysis of the historical influences and thought which molded its development into an accepted contemporary science. Prereq: CJ/Soc 335, 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 relating to the administration and organization of justice agencies. Prereq: Acceptance in 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 application of fiscal planning, manpower planning, and strategic policy planning to criminal justice. Prereq: Graduate standing and permission of instructor.

819V Independent Study (1-3) Individual projects in research, literature review, or creative production which may or may not be an extension of coursework. The work will be supervised and evaluated by departmental graduate faculty members. 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 graduate student and permission of instructor.

899V Master's Thesis (1-6)

DRAMATIC ARTS

The Master of Arts program in Dramatic Arts offers concentrated study in theatre history, literature, theory, and production, plus a special emphasis in People's Theatre. The overall goal of the program is to enrich the student's understanding of theatre as a humanistic and liberalizing art, to broaden and deepen an appreciation of the drama and theatre history, to introduce the student to research in theatre and drama, and to strengthen skills and creativity in the arts of theatre production.

The program is broadly flexible and allows each student to design a plan of study that meets individual needs and goals. With four main stage productions and at least two graduate-directed productions each

year, opportunities for applied work are considerable. The combination of practical production activity and stimulating coursework creates for the advanced student a wide variety of learning situations. As a part of an urban university, moreover, the UNO Dramatic Arts Department has close ties to the Omaha community and encourages work that takes advantage of these ties. For, although the department is committed to nurturing a greater understanding of American and world theatre, our natural constituency is the Omaha and Great Plains region, and it is these people we serve through our efforts in theatre scholarship, production, and outreach.

An applicant for graduate study in Dramatic Arts must present a minimum of 15 undergraduate semester hours with a B average in appropriate courses or experience equivalent to undergraduate training in theatre. Deficiencies in costume, stagecraft, lighting, acting, and literature must be satisfied either by coursework or by demonstrating proficiency. In order to begin a review of credentials, the student should contact the chairperson of the Graduate Program Committee. (Phone 402-554-2406 for further information.) Deficiencies will be determined by the Graduate Program Committee and ideally should be made up in the first year of study.

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

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

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

Option I: Successful completion of at least 24 semester hours of coursework including at least 12 hours in V-level courses; plus a thesis (6 credit hours) based on a proposal approved by the student's committee and defended orally before the committee when completed.

Option II-A or -B: Successful completion of at least 30 (Option A) or 33 (Option B) semester hours of coursework including at least 12 hours in V-level courses; plus a Final Project (6 or 3 hours, depending on Option A or B) consisting of major responsibility in a production approved by the Dramatic Arts faculty and the Graduate Program Committee in Dramatic Arts or an equivalent major effort in, for example, playwriting or a project of sufficient challenge and depth which is approved by the Dramatic Arts Graduate Program Committee. A final prompt book, journal, portfolio, script, or equivalent documentation will be assembled upon completion of the project and presented to the student's committee. The student will make an oral defense of the project before the committee.

The emphasis in People's Theatre is the department's response to what appears to be an important development in American and world theatre. With many small theatres organizing around the cultural, educational and entertainment needs of new audiences, such as women, blacks, chicanos, rural people, third world countries, etc., the department feels it appropriate to offer specialized study in the history, theory, and contemporary practice of these companies. In addition, special opportunities exist for practical theatre development in the Omaha region. In this way, the emphasis seeks not only to study the broader forms, but to apply theatre-making skills for the benefit of new audiences in the immediate area.

Those students pursuing UNO's special emphasis in People's Theatre take either Option I or Option II and a core of four Dramatic Arts courses in People's Theatre:

- 805V - People's Theatre Practicum
- 874V - People's Theatre History to 1960
- 875M - Contemporary People's Theatre
- 892V - Contemporary Theatre Aesthetics

Since the People's Theatre emphasis is fundamentally interdisciplinary, all People's Theatre students will take 9-12 of their hours in cooperative field outside Dramatic Arts.

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

801M-802M Advanced Projects in Dramatic Arts (1-3) Special projects in dramatic arts supplementing regular courses; individual research projects; combined study and practicum. Prereq: 9 hours of dramatic arts in the general area to be studied and permission of the instructor.

806M 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 major or minor in theatre or permission of the instructor.

809M Advanced Oral Interpretation (3) Theories and forms of interpretation from antiquity to the present. Preparation and presentation of a recital. Prereq: DA 109.

831M/832M Acting: Historical Periods and Styles (Each 3) The fundamental theories and practices of major styles of acting from ancient Greece to the present, including interpre-

tation of outstanding dramatic literature. Prereq: DA 231-232 or permission of the instructor.

844M Directing: Rehearsal and Performance (3) A practicum in play selection, analysis, casting, directing and performing. Prereq: DA 101, 163, 206, 231 or permission of the instructor.

850/851M Costume Design (Each 3) An introduction to the fundamentals of stage costume design, including line, silhouette, movement, color, texture and theatricality. Emphasis on the visual presentation of designs, including considerable work with life drawing and rendering technique. Prereq: DA 206, 351; Art 110, 121.

861M Scene Design (3) Principles of composition perspective and color for the stage; the designer's approach to the play, production of ground plans, elevations and sketches. Prereq: DA 101, 163, 206, 263.

867M Stage and TV Lighting (3) Characteristics and control of light and color and their application to the theatre and television; elementary electricity; lens systems; reflectors; lamps, control systems. Prereq: DA 101, 163, 206.

871M History of the Theatre to 1642 (3) A historical survey of theatre and its literature from its origins to 1642.

872M History of the Theatre Since 1642 (3) A historical survey of theatre and its literature from 1642 to the present.

873M Seminar in Theatre History (3) Selected subjects in theatre history from ancient to modern times. The subject of the course will change each year, according to the interest of the students and the instructor. Prereq: Permission of the instructor.

475/875M Contemporary People's Theatre (3) A course for graduate and advanced undergraduate students, this study concentrates on the people's theatre movement from 1960 to the present. Considerable emphasis will be given to research and study of companies currently operating, with encouragement given to graduate students to write for publication. Prereq: Graduate: Consent of instructor.

883M Seminar in Dramatic Literature (3) A seminar for graduate and advanced undergraduate students which will explore selected subjects in dramatic literature in depth. Research papers and seminar reports will be required. The subject of the seminar will change from year to year. Prereq: Permission of the instructor.

805V People's Theatre Practicum (3) A practical, theatre-making and analyzing workshop in which students examine theatrical, entertainment, and educational needs in the area and develop theatre projects — plays, workshops, scenarios, "events," educational programs using theatre — for local or regional audiences. Prereq: Consent of instructor and Graduate standing.

843V Seminar in Play Direction (3) An in-depth study of the principles of play direction. Prereq: Graduate standing and permission of instructor.

865V Technical Theatre Problems (3) Research and dialogue in the aesthetics and physical results of the relationships between dramatic form, theatre architecture, and scenic design and lighting from historical and contemporary points of view. Prereq: DA 101, 366, 461, 471, 472 or permission.

874V 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 to 1875 and subsequent special focus on twentieth century developments to 1960, especially key periods of 1920's and 1930's. Prereq: DA 471, 472. DA 472 may be taken concurrently.

890V Dramatic Arts Research Methods (3) This course is designed to introduce graduate students in dramatic arts to basic techniques of scholarly research: gathering material, defining the problem, and preparing the manuscript. Prereq: Admission to graduate program in Dramatic Arts.

891V Dramatic Theory and Criticism (3) For advanced students of dramatic literature. Important dramatic theories and criticism from antiquity to the present. Prereq: DA 101 or permission of instructor.

892V Seminar in Contemporary Theatre Aesthetics (3) Research and dialogue in the aesthetic theories and movements in the contemporary theatre. Emphasis on the sources, background, and configuration of theatrical styles in this century. Prereq: DA 101, 471, 472 and English 252 or permission.

898V Final Project (1-3) Final project for Option II. Prereq: Admission to candidacy and the approval of the project proposal.

899 Thesis (1-3) Independent research project written under the supervision of an advisor.

ECONOMICS

The graduate program in Economics is designed to provide a solid background in theory, quantitative methods and application appropriate to the needs of economists involved in forecasting, simulation, financial analysis, policy analysis and related work.

Master of Science

The M.S. program consists of core requirements (15 hours), an elected specialization (6 to 12 hours), and electives (9 to 15 hours, depending on the specialization elected). No thesis is required for the M.S. degree. All courses are 3 credits. Total hours required: 36.

Each student must complete the core requirements.

Core (15 hours)

- ECON 820V, Microeconomic Theory
- ECON 822V, Macroeconomic Theory
- ECON 830M, Quantitative Applications in Economics and Business*
- ECON 829V, Research Methods
- ECON 830V, Econometrics

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

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

Suggested Specializations

- I. Economic Theory 9 hours
 - ECON 826M, Evolution of Economic Thought
 - ECON 845M, Monetary Theory and Policy
 - ECON 865V, Seminar in International Economics
 - Electives 12 hours
- II. Energy and Regulatory Economics 6 hours
 - ECON 821M, Industrial Organization
 - ECON 832M, Natural Resource Economics
 - Electives 15 hours
- III. Monetary and Financial Economics (select 4 courses) 12 hours
 - ECON 801V, Public Finance
 - ECON 845M, Monetary Theory and Policy
 - ECON 845V, Seminar in Money and Banking
 - BA 853V, Banking and Financial Markets
 - BA 856M, State and Local Finance
 - Electives 9 hours
- IV. International Economics (select 3 courses) 9 hours
 - ECON 865V, Seminar in International Economics
 - ECON 861M, International Trade
 - ECON 862M, International Monetary Economics
 - ECON 866M, International Economic Development
 - POLI SCI 820V, Seminar in International Politics
 - Electives 12 hours
- V. Urban/Regional Economics (select 4 courses - 12 hours, 6 of which must be in Economics)
 - ECON 885V, Seminar in Urban Economics
 - ECON 887V, Seminar in Regional Economics
 - ECON 899V, Research in Urban/Regional Economics
 - GEO 812M, Urban Geography
 - HIST 843M, American Urban History to 1870
 - HIST 844M, American Urban History since 1870
 - SOC 814M, Urban Sociology
 - Electives 9 hours
- VI. General (12 hours of graduate-level elective courses. Approval of Economics Program Graduate Advisor required.)

Master of Arts

The M.A. program consists of: core requirements (12 hours), an elected specialization (6 to 12 hours), electives as necessary (including 6 hours of thesis). Total hours required: 30.

Core (12 hours)

- ECON 820V, Microeconomic Theory
- ECON 822V, Macroeconomic Theory
- ECON 830M, Quantitative Applications in Economics and Business*
- ECON 830V, Econometrics

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

Suggested Specializations

- I. Real Estate and Land Use Economics 18 hours
 - BA 860V, Real Estate and Land Use Economic Theory
 - BA 861V, Current Problems in Real Estate
 - BA 899V, Thesis** 6 hours
 - Electives 6 hours
- II. All other specializations are the same as those described under the M.S. program.
 - Electives, include ECON 899V Thesis 6 hours

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

421/821M Industrial Organization (3) An analysis of the structure and behavior of industries and their effect on economic performance. Involves detailed applications of micro-economic theories and concepts and provides a basis for public policy evaluations. Prereq: Econ 201 and 202 or permission of the instructor.

430/830M Quantitative Applications in Economics and Business (3) The study and application of modern quantitative techniques to problem solving in economics and business. Prereq: Econ 201, 202 and DS 212 or permission of instructor.

432/832M Natural Resource Economics (3) Energy, minerals, fisheries, water, land, pollution and congestion are among the topics. The course covers the basic theoretical framework for understanding the optimal rate of resource use, identifies the factors which determine the actual rate of use, and considers and evaluates various public policy prescriptions. Prereq: Econ 201 and 202 or permission of instructor.

445/845M Monetary Theory and Policy (3) This course traces the development of monetary theory from the classical theory to current monetary theories. Beside the classical theory, the monetary theories of Keynes, the neo-Keynesians, and the neo-classical are examined and compared. The implications of each school for monetary policy are examined. Prereq: Econ 322 or permission of instructor.

461/861M International Trade (3) An analysis of the character of international economic relations. Subjects covered include the economic basis for international specialization and trade, the economic gains from trade, commercial policy, economic integration, and economic growth. Prereq: Econ 201, 202 or permission.

462/862M International Monetary Economics (3) An analysis of the international monetary system. Subjects covered include the balance of payments adjustment mechanism, alternative exchange rate systems, external effects of monetary and fiscal policy, foreign investments and international monetary reform. Prereq: Econ 201 or 202 or permission of the instructor.

466/866M International Economic Development (3) Problems relating to early stages of economic development; investment priorities, mobilizing savings and policies and programs are studied. Prereq: Econ 201 and 202 or permission of the instructor. Spring in even-numbered years.

801V Theory of Public Finance (3) This course is designed to develop the theoretical basis of modern tax and expenditure processes at the frontier of knowledge. Prereq: Econ 320, Econ 322 and Econ 822V or permission of instructor.

805V Economic Education I (3) A study and examination of economic principles and how they can be related to the teacher's classroom presentation. This course is designed to furnish the public school teacher (K-12) with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles. Prereq: No previous coursework in economics. Not open to Economics majors.

816V Seminar in Labor Economics (3) A study and investigation of current developments and issues involving labor institutions, labor relations, wage theories and employment policies. Prereq: Econ 320, 322 and three hours of credit in undergraduate labor economics or permission.

820V Seminar in Micro Theory (3) This course deals with the current state of microeconomic theory. The major topics covered are the theory of consumer behavior, theory of production and cost, theory of the firm, distribution theory, and welfare theory. Prereq: Econ 320, 322 and 830M or permission.

821V Managerial Economics (Same as BA 810V) (3) Microeconomics for graduate students of business. Economic analysis of the business firm and its environments, with emphasis on market structure, production possibilities, and cost factors. Additional consideration is given to the theory of the firm under conditions of uncertainty. Prereq: Graduate standing in the college of business administration.

822V Seminar in Macro Theory (3) This course traces the development of macroeconomic theory from the classical point of view to current schools of thought. Keynesian, neo-Keynesian, and neo-classical models are developed. Prereq: Econ 320 and 322 or permission.

823V Business Conditions Analysis (Same as BA 805V) (3) This course is concerned with the statistical measurement and evaluation of general business conditions, and the adaption of business policies to changing business conditions. Emphasis is placed upon the practical application of statistical techniques of analysis to the business situation, within the framework of the aggregate economy. Prereq: Econ 202 or BA 818H.

829V Research Methods in Economics and Business (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual application. Prereq: D.S. 213 or its equivalent. Not open to students who have had BA 802V.

830V Econometrics (3) The study of the underlying assumptions, techniques, and applications of single and multiple equation regression analysis in economics. Prereq: Econ 830M or 829V or permission.

831V Business Forecasting (3) This course includes a comprehensive survey of forecasting methods and in-depth study of selected techniques most commonly used in business environments. Emphasis is given to applications and therefore students will be required to develop forecasting models and test their performance as part of the course. Cross-listed with BA 808V. Prereq: BA 800V or Econ 830M or permission of instructor.

845V Seminar in Money and Banking (3) Original research and writing of papers on basic problems in the area of money and banking. Prereq: Six hours in undergraduate monetary courses or permission of the instructor.

865V 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 their possible solution. (Also listed under geog. and sociology.) Prereq: At least 6 hours of upper division coursework in economics or permission of the instructor.

887V Seminar in Regional Economics (3) An examination of the current developments and issues involving regional economic development and planning. These courses provide the theoret-

ical basis for understanding and analyzing economic problems of a regional nature. In addition policy alternatives, decision making, and measurement techniques are examined. (Also listed under geography.) Prereq: At least 6 hours of upper division coursework in economics or permission of the instructor.

892-893V Independent Study (Each 1-3) Guided independent study and research under tutorial supervision. Prereq: Graduate student 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.

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 (with endorsement) must hold a bachelor's degree from an accredited institution and be certificated at either or both the elementary or secondary teaching level. The degree program of at least 36 semester hours must include balanced coverage of the major areas of educational administration and supervision.

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.

All programs 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 Specialist in Education degree (with endorsement) in the Department of Educational Administration and Supervision must be certificated 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 Specialist in Education degree (without endorsement) in the Department of Educational Administration and Supervision must 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 direction of a graduate faculty supervisory committee. Prior to admission to candidacy, all students must successfully pass the designated qualifying examination.

Students seeking added endorsements must be pursuing a committee approved program. The assistance of a faculty 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. in Administration, Curriculum and Instruction offered by the University of Nebraska-Lincoln. Additional information can be obtained from the Chairperson, Educational Administration and Supervision, UNO (554-2721).

888M Administration of the Instructional Materials Center (3) A course designed for students who wish to prepare themselves for the administration of an educational media program within an elementary and/or secondary school. (Also LS 888M).

800V Special Studies in Educational Administration and Supervision (3) A series of intensive courses especially designed for educa-

tional administrators and supervisors — scheduled as regular seminars or workshops, according to purpose.

805V School-Community Relations (3) This program is designed to acquaint the student with all aspects of school-community relations. Primary attention will be given to study and research of effective principles and practices in school-community relations.

806VA Administering School Discipline

(3) Course will be an opportunity for students to develop increased awareness of the circumstances in the schools and professional skills relating to school discipline and how discipline might be administered more successfully. Students will develop model rules, regulations, policies and procedures based on disciplinary strategies and general prevention programs. Prereq: Graduate standing.

810V Independent Study in Educational Administration (1-3) Individual or group study and analysis of specific problems in educational administration and supervision. Prereq: Admission to the Department.

825V Data Processing in Educational Administration (3) A study of systems as planning bases for administration, and the role of electronic data processing in implementation.

830V Seminar in Educational Administration (3) A study of educational problems with in-depth research analysis to show their relationship to and implication for educational administration. Prereq: Admission to EDAD Dept.

835V Introduction to Educational Administration and Supervision (3) A study of the natural and functioning of effective school organization and administration, including the inter-relationship between the federal, state, and local responsibilities.

840V Practicum in Educational Administration and Supervision (3) Designed to provide guides of study and practice in elementary, secondary and general administration and supervision as the interests and needs of the student requires. Prereq: Completion of 24 hours of graduate study and approval of written application.

841V Practicum in Educational Administration and Supervision (3) Continuation of Education 840V. Continued study and practice under guidance in elementary, secondary or general administration and supervision as the needs of the student requires.

846V Administration and Supervision in Elementary Schools (3) The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.

847V Administration and Supervision in Secondary Schools (3) The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.

849V Theory and Practice of Supervision (3) An in-depth inquiry into the nature and function of supervision in the modern school. This course will incorporate the salient psychological, sociological, business administration and educational administration concepts of personnel and organizational development as they apply to educational systems. Prereq: EDAD 835, EDAD 846, or EDAD 847.

855V School Business Management (3) An analysis of the functions of business management; budgetary procedures; financial accounting, auditing and reporting; management of funds, purchasing procedures and inventory; adminis-

tration 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 historical 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 competence in planning the school building; site selection, building construction and design; school furniture and equipment; maintenance and operation; rehabilitation and remodeling; scheduling of work; and custodial care. Prereq: Graduate standing.

870V 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 should be useful to those administrators who recognize the need to increase their knowledge and skill in human relations.

880V 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 SED 880V.)

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

900 Seminar in Research Design (3) A seminar designed to acquaint students with the principles of research design and to provide experience in the application of these principles to problems in educational administration. Prereq: Admission to 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 administration. Prereq: Admission to Ed.S. program.

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

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-masters and permission.

954 School Law (3) This course is concerned with laws related to schools. Topics include certification, contract, negligence, curriculum, admis-

sion, pupil control, and transportation. Each is approached through study of most recent court pronouncements.

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 Analogy Test (MAT) or the general aptitude section (but not the advanced area) of the Graduate Record Exam (GRE).

All candidates for Master of Arts degrees with majors in English are required to take English 801V (Introduction to Literary Research) within the first nine hours of graduate study, and to complete one of the following plans of study:

Plan A: Successful completion of 24 credit hours in coursework, including at least 12 hours in 800V- or 900-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- or 900-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: English 806V, 808V, 809V, 810V, 813V, 820V, 898V, 912, 915.

With approval of a student's advisor and the English Graduate Program Committee, a student may include a minor or coursework from another related discipline or disciplines as part of the Plan of Study. For Plan A (thesis) a minor is six hours; for Plan B (non-thesis) a minor is nine hours. The maximum amount of coursework which may be applied from another discipline or disciplines is the same as that for a minor for Plan A (six hours) or Plan B (nine hours).

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

1. Satisfactory completion of the following four courses:
 - a. Eng. 858M, Introduction to Linguistics
 - b. Eng. 878M, Structure of English
 - c. Eng. 896M, Studies in Linguistics (Applied Linguistics)
 - d. Eng. 896M, Studies in Linguistics (Teaching English as a Second Language)
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, granted by the Board of Regents, is **not** a certificate to teach in the public schools of Nebraska or any other state. It is an academic credential only. Students who want certification to teach in the public schools must follow the procedures and courses of study prescribed by the College of Education. The requirements for certification to teach English as a second language in American public schools vary widely from state to state.

815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels in translation. Prereq: Permission of the instructor. (Same as French 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 and German 417/817M). Prereq: Permission of the instructor.

818M Chicano Literature and Culture (3) A study of representative works of Mexican American, Spanish American, and American writers, along with their cultural and historical antecedents. Prereq: Permission. (Same as Spanish 418/818M).

825M Introduction to Women's Studies in Literature (3) A critical study of literature by and about women in which students learn about contributions of women to literature, ask what literature reveals about the identity and roles of women in various contexts, and evaluate standard interpretations from the perspectives of current research and individual experience. Prereq: Graduate standing.

832M Middle English Literature (3) A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500.

833M Sixteenth Century Literature (3) Poetry and prose of the English renaissance from its continental origins to the end of the Elizabethan age.

834M Chaucer (3) A literary and linguistic

study of the works of Chaucer, with emphasis on the Canterbury Tales.

848M Seventeenth Century Literature (3) A study of the English poetry and prose from 1600 to 1660 including such authors as John Donne, Ben Jonson, Sir Francis Bacon, Sir Thomas Browne, and John Milton.

850M Shakespeare's Contemporaries (3) A study of the development of the English drama, exclusive of Shakespeare, from the beginning to 1642.

858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language learning.

860M Shakespeare (3) A critical study of selected comedies, histories and tragedies by Shakespeare.

862M Restoration and Eighteenth Century Literature (3) Poetry, prose (exclusive of the novel), and drama of England in the Restoration and eighteenth century (1660-1800), with emphasis on Swift and Johnson. Prereq: Graduate standing.

864M The Eighteenth Century English Novel (3) Readings in the English novel from Daniel Defoe to Jane Austen.

865M The Nineteenth Century English Novel (3) Readings in the English novel from Jane Austen to Thomas Hardy.

866M The Twentieth-Century English Novel (3) Readings in the English novel from Joseph Conrad to the present.

868M History of English (3) A study of the structural development of the English language. Prereq: English 458/858M or permission.

875M Rhetoric (3) A study of contemporary theories of invention, form, and style and their application in written discourse, with special emphasis on such contemporary rhetoricians as Kenneth Burke, Ross Winterowd, Edward P.J. Corbett, Francis Christensen, and others. Prereq: Eng. 458/858M.

878M Structure of English (3) A study of the phonology, morphology, and syntax of English as seen by the traditional, structural, and transformational-generative theories of language description. Prereq: English 458/858M or permission.

881M Literature of The Romantic Period (3) Poetry and prose (excluding the novel) of England from 1798 to 1830.

882M Literature of The Victorian Period (3) English poetry and prose (excluding the novel) from 1830 to 1900.

885M Twentieth Century English Literature (3) Readings in English literature from Shaw and Yeats to the present.

886M Modern French Women Authors (3) A comparative treatment of works by women in contemporary and recent French literature; the feminine perspective on society, politics and human values as expressed in those works. Conducted in English with readings in French or Eng-

lish. (Same as French 486/886M). Prereq: Permission of instructor.

888M Linguistic Variation (3) The methods and results of linguistic geography, sociological dialectology, and modern variation studies with emphasis on American English in the community and the classroom. Prereq: English 458/858M or permission.

891M Contemporary Poetry of England and America (3) A study of the English and American poetry, the important ideas it contains, and the relevant critical theory of the contemporary period.

893M American Poetry (3) The practice and theory of American poetry from the colonial period up to the contemporary period.

894M Studies in Language and Literature (3) Specific subjects (when offered) appear in class schedules. Complete syllabi available in English Department.

895M Contemporary Literature: Major Figures and Major Movements (3) A critical study of selected major literary figures or major literary movements which have appeared since World War II.

896M Seminar: Linguistics (3) A seminar in a selected sub-field or problem area of linguistics such as sociolinguistics, generative semantics, applied linguistics, descriptive linguistics, teaching English as a foreign language, etc. Prereq: English 458/858M and permission of the instructor.

897M The American Novel (3) A critical and historical study of the work of twelve or more significant American novelists of the nineteenth and twentieth centuries.

898M The American Drama (3) A study of the American drama and its theatrical background from the beginning to the present day, with concentration on the drama of the twentieth century.

801V Seminar: Introduction to Literary Research (3) A survey of literary research, history, and interpretation, with a primary emphasis on methods of scholarship currently useful to the study of English and American literature. Prereq: Graduate standing or permission of the chairman of the department of English.

804V Seminar: Literary Criticism (3) Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth century England and twentieth century America. Prereq: Graduate standing or permission of the chairman of the department of English.

806V Seminar: American Literature (3) Individual research and group discussion relating to a general topic in American literature. (This course may be repeated for additional credits under different topics.) Prereq: Graduate standing or permission of the chairman of the department of English.

808V Seminar in The English Renaissance (3) A seminar in a few significant literary figures of the English renaissance. Prereq: Graduate standing or permission of the chairman of the

department of English.

809V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected English authors and works of the Restoration and the Augustan Age (1660-1750). Prereq: Graduate standing.

810V Seminar: Victorian Literature (3) An intensive study of selected Victorian authors and their works. Prereq: Graduate standing or permission by the chairman of the department of English.

813V Topical Seminar in English (3) An intensive study of one or more authors, genres, literary movements or literary problems not covered by regular period or genre courses. (This course may be repeated for additional credits under different topics.) Prereq: Graduate standing or permission of the instructor.

814V Seminar: John Milton (3) Intensive seminar in the major works of John Milton and investigation of specific critical and scholarly problems. Prereq: Graduate standing or permission of the instructor.

820V Seminar in Middle English Literature (3) A study of selected writings in middle English. Prereq: Graduate standing and one course in middle English language or writings.

GEOGRAPHY

Master of Arts

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

One course is required: History and Philosophy (800V). In addition, all students are expected to attend General Seminar. The remainder of the program consists of courses scheduled by the student with the advice of the Graduate Program Committee. At least one-half of all coursework must be in V-level courses. All students must pass a written examination prior to undertaking thesis work.

Admission Requirements

In addition to the requirements of the Graduate College, an applicant for admission to the Master of Arts degree program in geography must present as a prerequisite a minimum of 15 undergraduate semester hours of geography including physical and human geography and cartography, plus at least three hours in spatial analysis, quantitative methods, or statistics. Applicants are furthermore 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.

401/801M Conservation of Natural Resources (3) A study of conservation techniques and problems with particular emphasis on the United States. Includes philosophical and economic aspects of resource management and a systematic survey of traditional conservation types including soils, forestry, water resources and energy. Prereq: Three hours of Geog.

402/802M Quantitative Methods in Geography (3) The understanding and appreciation of quantitative techniques in geography. Emphasis is placed on two-dimensional sampling theory and design, graph theory, and spatial statistics. Prereq: Math 153 or permission.

403/803M Computer Mapping and Data Analysis (3) Computer techniques in mapping

825V Seminar in Chaucer (3) A study of selected works of Geoffrey Chaucer. Prereq: Graduate standing and one course in middle English language or writings.

898V Independent Study (1, 2, or 3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the graduate faculty. Designed primarily for the student who has need of work not currently available in the departmental offering and who has demonstrated capability of working independently. May be repeated for credit once. Prereq: Permission of the instructor, admission to candidacy, and no incompletes outstanding.

899 Thesis (3-6) Independent research project written under the supervision of an advisor. Prereq: By permission of thesis director.

912V Seminar: Shakespeare (3) Critical analysis of ten tragedies, ten histories, or ten comedies of Shakespeare. Prereq: Graduate standing.

915V English Literature 1750-1830 (3) Studies in the transitions between English literature of the age of Johnson and that of the age of Wordsworth. Prereq: Graduate standing.

and analyzing areal data. Emphasis is placed upon address systems as input to various mapping and statistical programs. Prereq: Geog. 353, and a course in introductory statistics.

805M Geographic Information Systems (3) An introduction to data manipulation and database management of geographic information. Topics include geographical data input, storage, maintenance, analysis, retrieval and display. Current geographic information systems are examined. Particular attention is given to the combination of remote sensing imagery and cartographic data-base. Prereq: Geog. 353 or Geog. 463/863M and an introductory computer science course (CS 161 or equivalent).

410/810M Plant Geography (3) A study of

the worldwide geographic distribution of major vegetation types and the ecological and physiological factors that determine their location. Special attention to North America is included. Prereq: Biol. 102 and Botany 145, or permission. (Same as Biol. 410/810M)

412/812M Urban Geography (3) A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, and the comparative study of cities. (Same as Soc 412/812M)

413/813M Geography of Manufacturing (3) A course which discusses methods of measurement and classification, as well as the function of manufacturing; major world manufacturing regions and industry analysis; location criteria and theory in the U.S.; and local community patterns. Prereq: Geog. 313 or permission.

814M Urban Sociology (3) Examines urban theoretical perspectives, urbanization processes, the diversity of metropolitan communities, urban stratification, metropolitan growth, urban neighborhoods, community power and urban policy and planning. (Same as Soc. 414/814M). Prereq: Permission.

816M The American Urban Landscape (3) Investigation of the morphological and architectural character of the American city as a cultural form. Emphasis is placed on the evolution of urban form and land use patterns and on the development of structures that comprise the building fabric of the cityscape. Prereq: Graduate standing.

423/823M Great Plains and Nebraska (3) A study of the major physical and cultural attributes of the region. Emphasizes settlement history and the role of agriculture on the regional economy.

425/825M Landform Studies I (Geomorphology I) (3) Primarily a lecture course with concentration on understanding the theoretical aspects of processes and conditioning factors which produce landforms. Development of modern geomorphology and evolution of slopes are emphasized. Should be regarded as first half of a two-semester landform studies course. Prereq: Geog. 107 or 117.

426/826M Landform Studies II (Geomorphology II) (3) Primarily a lecture and laboratory course. Emphasis on methodology and modern process-oriented geomorphology. Should be taken as second half of a two-semester landform studies course. Prereq: Geog. 107 or 117.

432/832M Climatology (3) A study of climatic processes and their effect on shaping the cultural and physical landscape. Emphasis on physical and applied aspects of the field. Prereq: Geog. 106 or 351.

453/853M Historical Geography of the United States (3) An analysis of historical circumstances behind contemporary patterns of American cultural geography. Prereq: Graduate standing and Hist. 111 and 112 or Geog. 102 or 333.

461/861M Field Methods in Geography and Geology (3) A systematic investigation in lecture and field of techniques for studying and

analyzing rock and terrain features, land-use characteristics, and the nature of their patterns as a part of the whole geographic and geologic environment. The course is organized to accommodate variable needs of students with different backgrounds and career choices. Prereq: Permission.

463/863M Environmental Remote Sensing (3) Analysis of various sensor systems ranging from conventional low-altitude aerial photography through imagery obtained from earth-orbital platforms such as "Landsat" with emphasis on practical application. Provides basic tools for environmental evaluation.

800V History and Philosophy of Geography (3) Introduction to history of geography. Emphasis on significant ideas, concepts, methodologies, and philosophies in geography from classical Greeks to present. Prereq: Permission.

840V Seminar in Educational Geography (3) A survey of methods, instruction aids and goals for teaching geography. Designed to aid the teacher in the improvement of geographic instruction in the elementary and secondary schools as well as in higher education. Prereq: Permission.

821V Seminar in Cultural Geography (3) The philosophy of cultural and historical geography with emphasis on describing and interpreting the cultural landscape. Prereq: Permission.

831V Geography of Agriculture (3) A systematic study of the characteristics and patterns of world agriculture. Prereq: Permission.

850V Special Topics in Geography (1-3) This course will provide for an in-depth study of a geographical or geological subject (as specified in the course sub-title). Subjects will be offered as sections of GEO 850V, but will be separate from one another. Students may repeat GEO 850V as often as they like as no specific subject is duplicated. Course is offered with approval of Graduate Program Committee and Dean for Graduate Studies. Prereq: Variable.

851V Advanced Geomorphology (3) A seminar and lecture course on the current concepts and literature in the field of landform studies. Discussion will emphasize classic ideas as well as the modern concepts of climatic, dynamic, and quantitative geomorphology. Some study of quaternary chronology will be necessary. Several optional Saturday field trips. Prereq: Geog. 825M or 826M and 117 or 107. Permission.

858V Soils (3) An examination of the older geographical concepts of the distribution and morphology of soil and the new works concerned with soil forms on a regional, rather than zonal, basis. Prereq: Geog. 106 or 107 and permission.

860V Independent Research (1-3) Advanced study in the form of a major research project. Students are required to submit a written proposal and gain written approval of the supervising faculty member and Graduate Program Committee. In addition to a formal written report, the student is required to make an oral presentation of research results to General Seminar or a professional meeting. Prereq: 15 graduate hours in geography and permission.

864V Remote Sensing: Advanced Con-

cepts and Applications (3) Is designed for the graduate student desiring to do advanced work in remote sensing. The emphasis of the course is on non-photographic sensors and especially digital processing of multispectral satellite data. The applications are multi-disciplinary in nature. Prereq: Geog 463/863M.

865V Land Use (3) A field course designed to understand, by actual field investigation, land use patterns in urban areas through the comprehension of social, physical, and economic factors which tend to shape the land use of a given place. The major emphasis will be placed upon field investigations in the urban area, with the functional region receiving the major consideration. Prereq: Geog 412/812M.

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 (3) The significance of differences from place to place in the number, kind, and qualities of human inhabitants and changes through time. Prereq: Permission. (Same as Soc. 871V).

880V 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. Prereq: Permission and 12 hours graduate credit in geography.

881V Seminar in Metropolitan Planning (3) An overview of metropolitan planning with special emphasis on the planning process and current problems encountered by planning officials. Prereq: Permission. (Same as Econ. 881V and P.A. 881V.)

883V/884V Interdisciplinary Seminar on the Urban Community (2-6) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put on broad interrelated focus. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, political science, and sociology.)

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

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

GERONTOLOGY

Certificate of Gerontology

While UNO does not offer a graduate degree in Gerontology, a Specialization in Gerontology is available. The Board of Regents has established a Certificate in Gerontology that will be awarded upon completion of requirements for the Specialization. The Specialization may serve as an academic minor for students majoring in many of the social and behavioral sciences at the graduate level.

Requirements

1. Students wishing to work toward the Certificate in Gerontology must make application and be accepted into the Gerontology Program. Those working toward a graduate degree must also be accepted into the degree program of their major department.
2. Coursework requirements consist of a minimum of 15 semester hours in Gerontology. The only required course is GERO 811M — Applied Social Gerontology (3 semester hours); the other 12 hours (usually four graduate level courses) in Gerontology are selected by the student in consultation with the Academic Coordinator of the Gerontology Program. In this manner, individualized programs of study are developed for each student to best meet his or her career goals and interests.
3. A one semester full-time practicum or its equivalent is also required. The goal of this is to give each student practical one-on-one experience with the aged in a service program or agency delivering services to the elderly. Practicum students must register for GERO 894M-Practicum and participate in periodic seminars with the Practicum Supervisor of the Gerontology Program.

Example of a program of study

Each individual program of study will be tailored to the needs and interests of each student. The following is an example of what one program of study might look like:

GERO 811M, Applied Social Gerontology (2 semester hours) — required of all students at the graduate level.

GERO 810M, Educational Gerontology (3 semester hours)

GERO 846M, Aging and Human Behavior (3 semester hours)

GERO 867M, Programs and Services for the Aging (3 semester hours)

GERO 898M, Counseling Skills in Gerontology (3 semester hours)

GERO 894M, Practicum (6 semester hours)

410/810M Educational Gerontology (3)
An introduction to the field of education for and

about the aging. The institutions and processes of education will be analyzed to determine their rela-

tionships and value to persons who are now old and those who are aging.

411/811M Applied Social Gerontology (3)
An introduction to social gerontology with a special emphasis upon the effects of aging on social institutions and social participation and on examination of practice-oriented implications. Prereq: Nine hours of sociology (Same as Sociology 411).

435/835M Issues in Aging (3) This course is intended for students in Gerontology and in other fields who are interested in a humanistic approach to understanding significant issues which affect the lives of older people. Prereq: Graduate standing.

446/846M Aging and Human Behavior (3)
The course examines different kinds of behavior and the changes which may occur in older age. Applications of various personality theories concerning aging will be considered. Prereq: 3 hrs. gerontology or permission.

448/848M Comparative Gerontology (3)
The study of aging around the world by a comparative method in a cross-cultural and cross-national framework. An explanation of some practical experiences and developments in Europe, Asia, and Africa will be examined. Prereq: Three hours gerontology or permission.

450/850M Administrative and Legal Concerns of the Elderly (3) Consideration of the legal concerns which are likely to arise as people age. Includes introduction to American legal system, and emphasis on underlying legal concepts and issues of special importance to older persons. Prereq: Gerontology 411/811, Applied Social Gerontology.

452/852M Mental Health and Aging (3) An examination of mental health problems that are particular to older people. Prereq: permission.

455/855M Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders. (Same as HED 455).

467/867M Programs and Services for the Elderly (3) This course is provided to give the student an historical overview of programs for the elderly; examine the national policy process as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. Prereq: 3 hrs. Gerontology.

469/869M Working with Minority Elderly (3) This course is an interdisciplinary one, designed to provide the student with knowledge of the differing status, attitudes and experiences of the elderly within four major minority groups and to examine various service systems and practice models in terms of their relevance and effectiveness in meeting needs of the minority elderly. (Same as Social Work 869M.) Prereq: Senior or graduate standing in Gerontology or Social Work or permission of the instructor.

475/875M Mid-Life, Career Change, and Pre-retirement (3) An examination of mid-life as it applies to: the concept of second careers, existing resources, and the future of second

careers; and the concept and practical implications of pre-retirement planning. (Same as Counseling 475/875M.) Prereq: None.

485/885M Hospice and Other Services for the Dying Patient/Family (3) This course is designed to involve students in the recognition of fears, concerns, and needs of dying patients and their families by examining the hospice concept and other services available in our community. Factual information, readings, professional presentations, films, and experiential exercises are offered to aid the student in understanding that hospice is an alternative to the traditional medical model so that when the "cure" system is no longer functional, then the "care" system, hospice, can be offered. (Same as Social Work 485/885M.) Prereq: 873 or permission.

492/892M Special Studies in Gerontology (1-3) Special studies designed around the interests and needs of the individual student in such areas as the psychology, sociology, economics, or politics of aging, as well as operation of various service systems. The studies may be either a literature review project or a field project in which experience is gained in the community identifying and analyzing needs and services related to older people. Prereq: Six hours Gerontology or permission.

494/894M Practicum (0-6) This course provides the opportunity to students to share field experiences; to obtain guidance concerning various relationships with agency, staff, and clients; and to develop a broadly based perspective of the field of aging. Prereq: Nine hours of Gerontology and permission.

498/898M Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for application in gerontology. Prereq: Permission of instructor.

828V Counseling Older Adults (2) Designed to provide basic information counselors need for work with older adults. For Counseling and Guidance majors not specializing in Gerontology. Prereq: Counseling 890M, Principles of Guidance.

873V Thanatology-Study of Death (3 sm hours) An examination of theory and research relevant to interaction with the older, terminally ill person, focusing on communication with widows and other survivors as well as the dying patient. Prereq: Graduate standing, 3 hours Gerontology, permission.

896V Directed Readings in Counseling and Gerontology (1-3) A study of recent and current literature on counseling with older people. Prereq: Gero 898M (or Couns 898M), Counseling major, or permission.

897V Personal Values and Aging (1) Course designed to increase students' self-awareness of personal values and feelings related to aging and the aged.

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 Psychology 948) Prereq: 12 hours of psychology and/or gerontology or permission.

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, physical education, recreation/leisure studies.

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

Master of Arts

Required Core Courses

HPER 803V	Research in HPER	6 hours
HPER 822V	Problems and Issues in HPER	

Specialization Courses

(Specific courses will be selected from the following according to area of emphasis and consultation with an advisor.) 12-24 hours

HPER 800V	Special Studies
HPER 810V	Research Project
HPER 830V	Analysis of Research and Literature in HPER
HED 855V	Health Aspects of Aging
HED 825V	Human Sexuality
HED 833V	Alcohol Education
HED 885V	Health Aspects of Stress Management
PE 801M	Laboratory Practicum in Exercise Science
PE 893M	Measurement and Evaluation in Physical Education
PE 896M	Topics of Sports Medicine
PE 824V	Sport in American Culture
PE 828V	Curriculum in Physical Education
PE 837V	Improvement of Instruction in Physical Education
PE 840V	Motor Learning and Performance
PE 845V	Kinesiological Analysis of Motor Skills
PE 895V	Advanced Exercise Physiology
RED 824M	Organization & Administration of Recreation
RED 830M	Recreation Programming
RED 851M	Recreation for the MI & MR
RED 852M	Recreation for the Aging
RED 853M	Therapeutic Recreation: Activity Analysis
RED 854M	Therapeutic Recreation: Delivery Models
RED 841V	Outdoor Recreation Resource Planning

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.

Master of Science

Required Core Courses

HPER 803V	Research in HPER	6 hours
HPER 822V	Problems and Issues in HPER	

Specialization Courses

(Specific courses will be selected from the following according to the area of emphasis and consultation with an advisor.) 12-18 hours

HPER 800V	Special Studies
HPER 810V	Research Project
HPER 830V	Analysis of Research and Literature in HPER
HED 855M	Health Aspects of Aging
HED 825V	Human Sexuality
HED 833V	Alcohol Education
HED 885V	Health Aspects of Stress Management
PE 801M	Laboratory Practicum in Exercise Science
PE 893M	Measurement and Evaluation in Physical Education
PE 896M	Topics of Sports Medicine
PE 824V	Sport in American Culture
PE 828V	Curriculum in Physical Education
PE 837V	Improvement of Instruction in Physical Education
PE 840V	Motor Learning and Performance
PE 845V	Kinesiological Analysis of Motor Skills
PE 895V	Advanced Exercise Physiology

RED 824M	Organization & Administration of Recreation
RED 830M	Recreation Programming
RED 851M	Recreation for the MI & MR
RED 852M	Recreation for the Aging
RED 853M	Therapeutic Recreation: Activity Analysis
RED 854M	Therapeutic Recreation: Delivery Models
RED 841V	Outdoor Recreation Resource Planning

Thesis Requirement

HPER 899V Thesis

6 hours

Elective Courses

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

General HPER

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

803V Research in Health, Physical Education and Recreation (3) An introduction to the nature and significance of research in HPER. Attention will be given to research techniques, statistics, critical analysis of research and development of skill in writing research reports. Prereq: Graduate student in HPER.

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

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

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

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

Health Education

455/855M Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging; with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: Graduate standing.

805V Alcohol Dependency Workshop for Educators (1) A concentrated look at problems which arise from teenage misuse of alcohol in today's society. Special emphasis will be given to: the identification of students with alcohol related problems; the effect of alcohol on both the individual and the family unit; and the role of the school in prevention, intervention, and referral. Designed primarily for public school educators, counselors, and administrators. Prereq: Admission to Graduate College.

825V 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 cultural 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.

833V Alcohol Education for School Personnel (3) A study of the problems associated with alcohol use and misuse. The patterns and trends of use, theories of dependence, pharmacological aspects and health consequences are explored. Emphasis is given concerning 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

824V Sport in American Culture (3) The course is a study of sport and the ways in which it influences people in America.

826V Supervision of Physical Education (3) Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs in physical education.

828V 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.

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

840V Motor Learning and Performance (3) A study of conditions and factors which influence the learning and performance of motor skills with particular attention being given to those skills having relevance for the teacher of physical education.

845V Kinesiological 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.

401/801M Laboratory Practicum in Exercise Science (3) This practicum will provide students an opportunity to achieve competency

in operating various pieces of equipment typically used in biomechanics and exercise physiology laboratories. Prereq: PE 463, PE 494, current CPR Certification or equivalent, and permission of instructor.

450/850M Behavioral Aspects of Coaching Athletes (3) This course is designed to provide the graduate physical education student with an overview of the behavioral aspects of coaching athletes. The course will cover coaching as it affects skills, abilities, and personality of the elementary school, junior high school, high school, college, and post college athletes. Such personal factors as body build, intellectual attributes, emotions, competition, cooperation, morale, sportsmanship, and leadership will be discussed in relation to the athlete. Practice factors that influence the athlete will be studied from a coaching standpoint. Research in sport will be reviewed. Prereq: Graduate standing.

493/893M Measurement and Evaluation of Physical Education (3) Analysis of tests, measurement apparatus and testing procedures used in physical education. Includes a review of basic descriptive statistics. Practical experience in test administration is provided. Prereq: For 493, junior standing and Physical Education 243. (S,Su)

494/894M Physiology of Exercise (3) A study of the major physiological systems of the human body and their response to exercise and the exercise programs. Includes application of physiological concepts to physical training and conditioning. Prereq: HPER 288 or equivalent. (F,Su)

496/896M Topics in Sports Medicine (3) This course covers selected topics regarding the science and medicine of sports participation. Some areas to be covered include pharmacologic aspects, orthopedic aspects, prevention and rehabilitation, pediatric aspects, legal aspects and aging. Prereq: Basic course in human anatomy, physiology, kinesiology, exercise physiology, psychology and growth and development or special permission of the instructor.

Recreation/Leisure Studies

424/824M Organization and Administration of Recreation (3) Designed to provide a background of information on public, private, and commercial recreation with special attention to organization, promotion, development from the administrative aspect. Prereq: At least 9 hours of upper division courses in recreation or permission of the instructor.

430/830M Recreation Programming (3) An advanced study of recreational programming and planning through practical application of

research techniques with emphasis on understanding participant leisure behavior, participant leisure needs, and the ways in which organizations create services to respond to these leisure needs. Prereq: For 430, recreation major or permission of instructor. For 830M, undergraduate recreation major or minor, or permission of the instructor.

451/851M Recreation Programs for the Mentally Ill and the Mentally Retarded (3) Designed to explore recreative programs for the mentally ill and the mentally retarded (children, adolescents and adults) in institutions, residential schools and training centers and other agency settings. Consideration is given to developing an understanding of the relationship between recreative experiences and the ill or retarded person's potential for social independent living. Prereq: Introduction to therapeutic recreation, coursework and/or experience in working with the handicapped, or permission of the instructor.

452/852M Recreation for the Aging (3) The purpose of this course is to introduce the student to the field of recreation for the aging in nursing homes and community based recreation programs. The concentration focuses on the aging and their needs, and how proper recreation programming can help them meet some of their needs. A portion of the course involves students being placed in site leadership. Prereq: RED 350 or Gerontology 200, or permission of the instructor.

453/853M Therapeutic Recreation: Activity Analysis (3) This course will emphasize activity therapy programs and explore basic areas of activity in depth, describing their values and methods of selection and presentation and giving useful techniques for their modification. Prereq: RED 350 or permission of instructor.

854M Therapeutic Recreation: Delivery Models (3) This course investigates therapeutic recreation service delivery models for the ill and disabled in both institutional and community settings. It provides a rationale for the development of therapeutic recreation services for special populations and places particular emphasis on advanced leadership and therapeutic interaction skills and dynamics. Prereq: RED 350 or permission of instructor.

841V Outdoor Recreation Resource Planning (3) An in-depth view of outdoor recreation planning policy formulation, administration, and significant current problems. Specific attention will be focused on statewide planning, recreation variables, cultural preferences, demand, financing, decision-making, and public policy. Prereq: Graduate standing, at least 6 hours undergraduate preparation courses, or permission of the instructor.

2. Students may be admitted provisionally who have less than 21 (twenty-one) hours of undergraduate preparation, or who have not achieved a 2.75 overall grade average. They shall be removed from provisional status when they become eligible for and have achieved candidacy.
3. An incoming student, not having Historical Research (Hist 493) or its equivalent, must take Hist 493 on a non-graduate credit basis.
4. As stipulated by the Graduate College, students must take the general aptitude test of the Graduate Record Exam during the first semester of enrollment.

M.A. Program with Thesis (Option I)

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

- la. 24 semester hours of approved graduate courses in History, 9 of which must be in courses open only for graduate registration, i.e., seminars. The other 15 hours may be either lecture courses or courses numbered 801V and no more than 6 hours of credit may be taken by a student under this number. A balance of 15 and 9 must be maintained between major and minor areas of study.
- lb. 15 semester hours of approved graduate courses in History including 9 hours of seminars, plus 9 approved hours of graduate coursework in a related field, such 9 hours constituting a graduate minor. The minor department must be consulted to determine the student's eligibility to do graduate work in that department.

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

M.A. Program without Thesis (Option II)

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six hours of coursework, at least half of which must be earned in courses open only to graduate students (V series). No more than six (6) hours of credit may be taken by a student under courses numbered 801V.
2. In addition to showing broad competency in history, the candidate must give proof of research ability and proficiency in writing. This normally will be done in research seminars and independent research projects.
3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some other field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six hour minor may be gained by the advisor's permission, and the approval of the Graduate Program Committee.
4. Whether or not the student elects a minor in an outside field, he shall maintain a reasonable balance between American and non-American fields in history.
5. When the student initially enrolls, he shall, in conference with the chairperson of the Graduate Program Committee of the Department of History, choose his advisor. The chairperson of the History Graduate Program Committee shall, after consultation with the student and his advisor, recommend an advisory committee to the Dean for Graduate Studies and Research for official appointment. The advisory committee shall be composed of members of the Faculty appropriate to the student's program and academic interests. The chairperson of the advisory committee (and the representative of the minor field, if such field is selected) must be members of the Graduate Faculty.

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

1. Early in the semester the candidate expects to take the degree, he/she must make arrangements with his/her sponsor to take the comprehensive written examination. The examination will be given three times during the year: during the eleventh week of the fall semester, during the eleventh week of the spring semester, and during the second week of the first summer session.
2. The examination in history will consist of two parts, one devoted to the major area, and one to the minor area of study.
 - a. If the major area of study is European/English history, the examination will be comprehensive, taking into consideration the student's program of study. The non-European/English portion of the examination will be over the specific courses taken for the minor. The major area of examination will be of six hours duration (two three-hour segments), and the minor area examination will be of three hours duration.
 - b. If the major area of study is American history, the examination will be comprehensive, divided into two three-hour segments, with the breaking point for the two segments normally following the breaking point of the American history survey (History 111-112) course. The minor portion of the examination will be over the specific minor courses taken, and will be of three hours duration.
 - c. If the candidate offers an outside minor, the minor department and advisor will be responsible for the minor examination.

HISTORY

Master of Arts Admission to M.A. Program

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

3. The reading committee will consist of the sponsor and one other graduate faculty member expert in the major area. The readers for the minor area will be the instructors of the courses offered in the minor. In the major area, the selection of the second reader shall be made by the sponsor and candidate. Both readers of the major and all readers of the minor area must agree that the candidate has passed the examinations for which they are responsible. In the event of disagreement, a third reader may be consulted as a mediator, and the result he/she supports will be the result of the examination.
4. The sponsor and the reading committee will select the items to appear on the examination, and determine the number of essays to be written. The candidate will have a choice of questions on each portion of the examination.
5. Once the examination has been administered and graded, the secretary has forms to be filled out by the sponsor, signed by the Graduate Program Committee chairperson, and sent to the Dean for Graduate Studies and Research, certifying the candidate for conferral of the degree.
6. In the event of failure of either all or a portion of the comprehensive examination at least four (4) months shall elapse before the examination in whole or in part may be retaken. Any reexamination must occur within twelve (12) months following the initial failure.
7. In no event shall a student be permitted to take all or a portion of the comprehensive examination more than twice.
8. In planning for a comprehensive examination (or reexamination), students should be cognizant of the six-year limit for completion of degrees as set forth by the College for Graduate Studies and Research.

313/813J American Colonial History (3) A study of the background settlement, and development of the English colonies. Prereq: For 313, junior standing or permission of the instructor.

316/816J The American Frontier: 1800-1900 (3) The Trans-Mississippi West from the Rocky Mountain Fur Trade days to the disappearance of the frontier around 1900. Prereq: For 316, junior standing or permission of the instructor.

333/833J American Diplomatic History (3) A history of the foreign relations of the United States. Prereq: for 333, junior standing or permission of the instructor.

341/841J History of Nebraska (3) From the earliest known records to the present. Prereq: For 341, junior standing or permission of the instructor.

344/844J History of The South (3) Economic, social, and political development of the south as a region. Prereq: For 344, junior standing or permission of the instructor.

853J Medieval Europe (3) An examination of medieval European history with emphasis upon social and economic developments. Prereq: None.

864J History of The British Empire and Commonwealth (3) Britain in America, Africa, India and the Pacific. The development of a dependent empire and transformation into independent nations. Prereq: None.

371/871J Europe and America in the Two World Wars (3) A military, social and political history analyzing the causes, conduct and consequences of each war, the wartime transformation of European and American society, and the emergence of the United States as a world power. Prereq: Junior standing or permission.

391/891J Topics in History (3) A pro-seminar on selected topics based on a consideration of interpretive historical writings and/or source

materials. Prereq: Permission of the instructor.

406/806M History of Women in the United States (3) This course discusses the history of women in nineteenth and twentieth century America from the Seneca Falls convention to the present. It includes the study of feminist theorists and activists, female educational/professional and employment opportunities, current status of women and the New Feminism of the 1970's.

412/812M American Social and Intellectual History Since 1865 (3) Primarily a non-political approach to American history, this course will examine significant topics in American thought and society. Prereq: For 412, junior standing or permission of the instructor.

413/813M The Revolutionary Era, 1763-1789 (3) An analysis of the imperial and internal forces which led to the revolution and an examination of the economic, social, and political problems of the emerging nation. Prereq: For 413, junior standing or permission of the instructor.

616M The Federalist-Republican Period: 1789-1828 (3) An interpretive study of the middle period of American history. Prereq: None.

418/818M Civil War and Reconstruction (3) A period study from 1845 to 1877. The background of the Civil War, the war years, and the reaping of the Union during reconstruction. Prereq: For 418, junior standing or permission of the instructor.

424/824M The Emergence of Modern America: 1877-1901 (3) A study of a transitional period in American history, this course considers the importance of industrialization, urbanization, immigration, and the emergence of the United States as a significant world power. Prereq: For 424, junior standing or permission of the instructor.

427/827M Twentieth Century America to 1932 (3) A study of the history of the United States from the end of the nineteenth century to

the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 427, junior standing or permission of the instructor.

428/828M Twentieth Century America Since 1932 (3) A study of the history of the United States since the election of Franklin D. Roosevelt to the presidency of 1932. Prereq: For 428, junior standing or permission of the instructor.

433/833M Constitutional History of The United States to 1860 (3) A history of constitutional theory and practice since 1860. Prereq: For 433, junior standing or permission of the instructor.

434/834M Constitutional History of The United States Since 1860 (3) A history of constitutional theory and practice since 1860. Prereq: For 434, junior standing or permission of the instructor.

440/840M History of North American Indians (3) A survey of traditional North American Indian cultures, their contact with transplanted European peoples, and the continuing problems faced today. Prereq: For 440, junior standing or permission of the instructor.

443/843M American Urban History (3) Historical survey of urban development in the United States from the colonial period to the present, with attention to urbanization as a social process affecting the nation at large as well as cities in particular. Prereq: For 443, junior standing or permission of the instructor.

447/847M History of American Medicine and Public Health (3) Analysis of the relationship and interaction of medical thought and practice, public health problems and institutional development, and the changes in American society and culture from the 17th to the 20th century. Prereq: For 447, junior standing or permission of the instructor.

851M Intellectual History of Modern Europe from the Renaissance to the French Revolution (3) A study of enduring political, religious, economic, scientific and philosophical ideas in their historical setting. Prereq: None.

852M Intellectual History of Modern Europe from the French Revolution to the Present (3) A study of leading political, religious, economic, scientific and philosophical ideas in times of extraordinary social change. Prereq: None.

453/853M The Age of the Renaissance-Reformation (3) A study of the politics and economics of the fifteenth and the sixteenth centuries as well as the achievement of Renaissance culture and the emergence of the Protestant

churches and the Trentine Catholicism. Prereq: For 453, junior standing or permission of the instructor.

455/855M The Age of Enlightenment (3) A study of the politics and economics of the late-seventeenth century and of the eighteenth century as well as the emergence of modern secular thought and its impact upon traditional European society. Prereq: For 455, junior standing or permission of the instructor.

456/856M The French Revolution and Napoleonic Era: 1789-1845 (3) A study of the French revolution and the Napoleonic era with particular attention to the development of democratic practice concurrently with the development of modern authoritarianism. Prereq: For 456, junior standing or permission of the instructor.

457/857M Europe Betrays Its Promise (1815-1890) (3) A study of reform and reaction which resulted in the Balkanization of Europe.

861M Tudor and Stuart England (3) A study of England under the Tudors when the English people solidified the monarchy and experienced a golden age, and the Stuarts continued modernization and formulated the new institutions foreshadowing those of our world today. Prereq: None.

462/862M English History: From Empire to Welfare State (3) A study of the change and development in Great Britain from the late 18th century to 1918.

477/877M Europe in Crisis: 1890-1932 (3) A study of the conditions and forces immediately precedent to World War I, the war itself, the peace following the war and the rise of the modern dictatorships. Prereq: For 477, junior standing or permission of the instructor.

478/878M Europe in the Global Age: 1933 to the Present (3) A study of the ever increasing tensions between the Fascist and Communist dictatorships and the western democracies, World War II, the resultant dislocation of power and the emergence of the balance of terror. Prereq: For 478, junior standing or permission of the instructor.

801V Advanced Research Project in History (1, 11, S) (1-5) Special problems in advanced research in history, arranged individually with graduate students. There is a 6-hour limit for both the thesis and non-thesis programs. Prereq: 15 graduate hours (including 2 seminars). Permission of the instructor.

910 Seminar in History Readings and research in selected topics of history.

899 Thesis (1, 11, S) (1-6) Thesis research project written under supervision of an advisor.

MATHEMATICS

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

Master of Science

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

- Earn a total of 36 acceptable credits, at least 24 of which must be in Mathematics.
- Choose Mathematics courses which carry a number of 800M or above and at least 18 credit hours that carry a number of 800V or above.
- 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."
- Pass a written comprehensive examination.
- If a student wishes, they may take up to 12 hours of graduate work in Physics or Computer Science. All non mathematical courses that are taken as part of a degree program must be explicitly approved by the graduate Program Committee.

Master of Arts

To obtain the Master of Arts degree the student must:

- Earn a total of 30 credits in Mathematics.
- Complete a thesis not to exceed 6 semester hours, which may be applied toward the 30-hour total.
- Complete the requirements of b, c, and d above.

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

A student meeting the following two conditions will be admitted to the M.A.T. Program:

- has state certification for teaching secondary school mathematics.
- has maintained at least a "B" average in previous mathematics coursework including at least two courses beyond elementary calculus.

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

Master of Arts for Teachers of Mathematics

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

- Earn a total of 36 credits, of which 24 must be in mathematics.
- Include in his program mathematics courses 802T, 804T, 810J, 823J, 803M. (Courses 810J, 823J and 803M may be waived if the equivalent undergraduate courses have been taken.)
- Include in his program secondary education courses 850V, 853V, and at least one additional secondary education course selected with advisor's approval from courses numbered 800V or above.
- As listed under the Master of Science above.
- As listed under the Master of Science above.

Computer Science

311/811J Information Systems Analysis (3) Decision-making processes, system life cycle, logical design of information systems. Prereq: CS 181 or 182.

312/812J System Design and Implementation (3) Principles and techniques of the design and implementation of information systems. Hardware and software selection and evaluation. Prereq: CS 311.

322/822J Advanced Programming Techniques (3) The study of software production and quality including correctness, efficiency, and psychological factors of programs and programming. Prereq: CS 235.

330/830J Numerical Methods (3) Solving equations and systems of equations, interpolation, numerical differentiation and integration, numerical solutions to ordinary differential equa-

tions, numerical calculations of eigenvalues and eigenvectors, analysis of algorithms and errors, computational efficiency. Same as Math 830J. Prereq: Math 196, Math/CS 205. Math 331 recommended.

332/832J Data Structures (3) Methods of representing arrays, stacks, queues, lists, trees, graphs and files. Searching and sorting. Storage management. Prereq: CS 230 and 235 and one of CS 162 or 182.

345/845J Data Base Management Systems (3) Basic concept of generalized database management systems (DBMS); the relational, hierarchical and network models and DBMS systems which use them; introduction to database design. Prereq: CS 332.

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

ty/statistics desirable.

422/822M Programming Languages (3) Definition of programming languages. Global properties of algorithmic languages including scope of declaration, storage allocation, grouping of statements, binding time. Subroutines, coroutines and tasks. Comparison of several languages. Prereq: CS 231 and 332.

430/830M Linear Programming (3) Theory of simplex method, obtaining of initial basic feasible solution, infeasible and unbounded problems, quality, sensitivity analysis, implementation of a commercial LP package, transportation and assignment algorithms, integer programming techniques. Same as Math 830M. Prereq: Math/CS 205 or Math 305, and one of CS 162, 180 or 182.

431/831M Optimization Techniques (3) The mathematical foundations of optimization theory, applications, and computerized solution algorithms. Same as Math 831M. Prereq: Math 197, Math/CS 205 or Math/CS 830M.

435/835M Computer Architecture (3) Basic digital circuits, Boolean algebra, combinatorial logic, data representation and digital arithmetic. Digital storage and accessing, control functions, input-output facilities, system organization and reliability. Description and simulation techniques. Features needed for multiprogramming, multiprocessing and realtime systems. Prereq: CS 231 and 235.

450/850M Operating Systems (3) Operating System principles. The operating system as a resource manager; I/O programming, interrupt programming, and machine architecture as it relates to resource management; Memory management techniques for uni-multiprogrammed systems; Process description and implementation; processor management (scheduling); I/O device, controller, and channel management; file systems. Operating system implementation for large and small machines. Prereq: CS 231 and CS 332. CS 435 is recommended.

451/851M Advanced Topics in Operating Systems (3) Advanced Topics in Operating Systems. State of the art techniques for operating system structuring and implementation. Special purpose operating systems. Pragmatic aspects of operating systems design, implementation, and use. Prereq: CS 450.

470/870M Compiler Construction (3) Assemblers, interpreters and compilers. Compilation of simple expressions and statements. Organization of a compiler, including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation and error diagnostics. Prereq: CS 332 and 422. CS 450 is recommended.

849V Information Organization and Retrieval (3) Introduction to language processing as related to the design and operation of automatic information systems, including techniques for organizing, storing, matching, and retrieving structured and unstructured information on digital computers. Prereq: CS 332 (CS 345 recommended).

867V Algorithmic Combinatorics (3) Classical combinatorial analysis, graph theory, trees,

network flow, matching theory, extremal problems, block designs. Same as Math 867V. Prereq: Math/CS 205 and CS 235.

881V Advanced Numerical Methods I (3) Review of basic concepts from Linear Algebra. Direct and indirect methods for solving systems of equations. Numerical methods for finding eigenvalues and eigenvectors. Computation of inverses and generalized inverse, Matrix norms and applications. Same as Math 881V. Prereq: Math/CS 330.

882V Advanced Numerical Methods II (3) Solutions to equations, approximation, numerical solutions to boundary value problems, numerical solutions to partial differential equations. Same as Math 882V. Prereq: Math 881V/CS 881V.

891V Advanced Topics in Optimization (3) Topics selected from integer programming methods, optimization under uncertainty, constrained and unconstrained search procedures, advanced dynamic programming, variational methods and optimal control. May be repeated for credit with permission of Graduate Advisor. Same as Math 891V. Prereq: CS 430, CS 431.

895V Data Base Design and Organization (3) Introduction to objectives of computer data bases, how these objectives can be met by various logical designs, and how these designs are physically represented. Prereq: CS 332 (CS 345 recommended).

899V Independent Graduate Studies (1-3) Under this number a graduate student may pursue studies in an area that is not normally available in a formal course. The topics to be studied will be in a graduate area of computer science to be determined by the instructor, and then approved in writing by the Chairperson. Prereq: Permission of instructor and graduate classification.

Mathematics

331/811J Differential Equations (3) Methods of solving ordinary differential equations, with applications to geometry and physics. Linear differential equations are emphasized. Prereq: Math 196. It is further recommended that the student has taken Math 197 or takes it concurrently.

323/823J Introduction to Analysis (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include the real number system, topology of the real line, limits, functions of one variable, continuity, differentiation, integration. Prereq: Math 197 and Math 201.

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 function theorems, and algebra of vector function operators with applications. Prereq: Math 197 and either Math/CS 205 or Math 305.

330/830J Numerical Methods (3) Solving equations and systems of equations, interpolation, numerical differentiation and integration, numerical solutions to ordinary differential equations, numerical calculations of eigenvalues and eigenvectors, analysis of algorithms and errors,

computational efficiency. Same as CS 830J. Prereq: Math 196, Math/CS 205. Math 311 recommended.

350/850J Selected Topics in Mathematics (1-6) This is a variable content course with selected topics in the mathematical sciences which may be of interest to students in other disciplines such as mathematics education, psychology, and business. The course may be taken more than once for credit provided topics differ, with a maximum credit of 9 hours. Mathematics majors may apply no more than 3 hours of Math 350 toward the minimum major requirements. Math 850J does not apply to M.A. or M.S. in mathematics. Prereq: Permission of instructor.

364/864J Modern Geometry (3) Axiomatic systems, finite geometries, modern foundations of Euclidean geometry, hyperbolic and other non-Euclidean geometries, projective geometry. Prereq: Math 196 and Math 201.

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 desirable.

370/870J 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 or permission of the instructor.

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 305 and Math 811M required for Math 812M.

423/823M Mathematical Analysis I (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, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 323 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, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 423/823M.

427/827M Complex Variables (3) Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus, and applications. Prereq: Math 323 or advanced calculus.

429/829M Theory of Ordinary Differential Equations (3) Vector spaces, existence and uniqueness theorems, systems of linear equations, and two-point boundary problems. Prereq: Math 311 and 323, and either Math/CS 205 or Math 305.

430/830M Linear Programming (3) Theory of simplex method, obtaining of initial basic feasible solution, infeasible and unbounded problems, quality, sensitivity analysis, implementation of a commercial LP package, transportation and assignment algorithms, integer programming techniques. Same as CS 830M. Prereq: Math/CS 205; or Math 305, and one of CS 162, 180 or 182.

431/831M Discrete Optimization (3) The mathematical foundations and solution algorithms of discrete optimization problems including transportation problems, network problems, and integer programming. Prereq: Math/CS 205.

433/833M Fourier Series and Boundary Value Problems (3) Heat conduction problems, boundary value problems, Sturm-Liouville systems, Fourier series, Fourier integrals, Fourier transforms. Prereq: Math 311 or permission of the instructor.

441/841M Introduction to the Foundations of Mathematics (3) Logic, the axiomatic method, properties of axiom systems, set theory, cardinal and ordinal numbers, metamathematics, construction of the real number system, historical development of the foundations of mathematics, recent developments. Prereq: For 441, senior standing.

451/851M Theory of Numbers (3) Divisibility and primes, congruences, quadratic reciprocity, Diophantine equations, and other selected topics. Prereq: At least one math course numbered 300 or above.

454/854M Probability and Statistics II (3) Point estimation, confidence intervals, testing of statistical hypotheses. Prereq: Math 853M or equivalent required for Math 854M.

460/860M Tensor Analysis (3) A review of vector analysis, study of bisors and space tensors, applications to geometry and mechanics. Prereq: Math 311 or permission of the instructor.

461/861M Elementary Topology (3) Sets and functions, metric spaces, topological spaces, continuous functions and homeomorphisms, connectedness, compactness. Prereq: Math 323.

802T Topics in Geometry and Topology (3) Selections from the following topics: Straightedge and compass constructions; geometries and transformations — complex numbers and stereographic projection, non-Euclidean geometries; graph theory; topology of the plane; two dimensional manifolds; theory of dimension. Prereq: Has secondary teacher certification or is working toward it, or permission of instructor.

804T Topics in Computer Science (3) An introduction to digital computers 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: Has secondary teacher certification or is working toward it, or permission of instructor.

825V Partial Differential Equations (3) Linear and nonlinear first order equations, self-adjoint elliptic equations, linear integral equations, eigenfunctions, and boundary value problems. Prereq: Math 423 and 311 or equivalent.

845V Calculus of Variations (3) An introductory course devoted to the classical theory and problems, such as the brachistochrone problem and the problems in parametric form. Prereq: Math 423-424.

850V Applied Complex Variables (3) Applications of complex variables to potential theory, to the Fourier and Laplace transforms, and to other fields such as ordinary differential equations, number theory, etc. Prereq: Math 427.

862V General Topology (3) The concepts of Math 461/861M are studied at an advanced level in conjunction with ordinal and cardinal numbers, open and closed maps, separation axioms and countable compactness. Prereq: Math 461/861M or permission of the instructor.

865V Introduction to Probability Models (3) An introduction to probability modeling including Poisson processes, Markov chains, birth-death processes, queueing models, and renewal theory. Applications will be an important part of the course. Prereq: Math 453, or Math/CS 365, or Stat 380.

867V Algorithmic Combinatorics (3) Classical combinatorial analysis, graph theory, trees, network flow, matching theory, extremal problems, block designs. Same as CS 867V. Prereq: Math/CS 205 and CS 235.

881V Advanced Numerical Methods I (3) Review of basic concepts from Linear Algebra. Direct and indirect methods for solving systems of equations. Numerical methods for finding eigenvalues and eigenvectors. Computation of inverses and generalized inverse, Matrix norms and applications. Same as CS 881V. Prereq: Math/CS 330.

882V Advanced Numerical Methods II (3) Solutions to equations and systems of equations, approximation, numerical solutions to boundary value problems, numerical solutions to partial differential equations. Same as CS 882V. Prereq: Math 881V/CS 881V.

891V Advanced Topics in Optimization (3) Topics selected from integer programming methods, optimization under uncertainty, constrained and unconstrained search procedures,

advanced dynamic programming, variational methods optimal control. May be repeated for credit with permission of Graduate Advisor. Same as CS 891V. Prereq: CS 430, CS 431.

898V Graduate Seminar (1-3) A graduate seminar in mathematics.

899 Thesis (3-6)

899V Independent Graduate Studies (3) Under this number a graduate student may pursue studies in an area that is not normally available to him in a formal course. The topics studies will be a graduate area in mathematics to be determined by the instructor. Prereq: Permission of instructor and graduate classification.

911 Advanced Topics in Algebra (3) Vector spaces, linear transformations, theory of a single linear transformation, sets of linear transformations, bilinear forms, Euclidean space, unitary space, products of vector spaces. Prereq: Math 411 and permission of instructor.

923-924 Theory of Functions of Real Variables (Each 3) The real number system, generalized convergence, continuity, semicontinuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, Lp spaces. Prereq: Math 423-424/823-824 or advanced calculus. 923 needed for 924. 923 to be offered in the fall of odd-numbered years. 924 to be offered in the spring of even-numbered years.

Statistics

800J Statistical Methods I (3) Distributions, introduction to measures of central value and dispersion, population and sample, the normal distribution, inference: Single population, inference: Two populations, introduction to analysis of variance. Statistical packages on the computer will also be utilized in the course. Prereq: Math 131 or equivalent.

801J Statistical Methods II (3) Regression and correlation, analysis of covariance, chi-square type statistics, more analysis of variance, questions of normality, introduction to nonparametric statistics. Statistical packages are used when appropriate. Prereq: Statistics 800J or equivalent.

MUSIC

Master of Music

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

1. Music Education Program of Study	3 hours
Research in Music Education	6
Music Education	3
Music History	6
Music Theory	9
Electives (To be selected from Conducting, Performance, Pedagogy, Literature)	3
Option A: Thesis	9
Option B: Additional hours of academic class work (A portion or all of these hours may be elected in related subject fields or outside music.)	9
Total (Option A)	30
Total (Option B)	36

2. Performance Program of Study	
Applied Music	9 hours
Music Bibliography	3
Music History, Conducting or Literature, or Theory or Pedagogy	9
Recital	3
Electives (A portion or all of these hours may be elected in related subject fields or outside music.)	6
Total	30

More specific requirements for programs of study such as Vocal Music Education, Instrumental Music Education, String Music Education, Keyboard Music Education, Vocal/Choral Performance, Instrumental Performance, String Performance, and Piano Performance are described in the Music Department Graduate Handbook. The Department does require the GRE or MAT tests as well as several music diagnostic exams which are outlined in the Handbook.

800M Special Studies in Music (1-3) Seminars or workshops in Theory, History, Performance, and Music Education designed to meet specific interests and needs of students. Topics and number of credits for each specific offering will be announced during the prior semester. Prereq: Graduate standing and departmental permission.

440/840M Advanced Composition (3) Designed to help students become more familiar with the craft of creating music. Emphasis on new trends including indeterminacy, electronic music, total organization, computer music, minimalism, antimusic, and biomusic. Prereq: Music 340 or permission.

444/844M Twentieth Century Styles (3) This course will study 20th Century music through analysis and practical application of the various theories, techniques and individual stylistic qualities that contribute to identification of individual styles and "style schools." It is designed for those students who are unfamiliar with the music of the early part of the twentieth century. Prereq: Music 242 or the permission of the instructor.

445/845M Advanced Orchestration (3) This course will present students to advanced orchestration techniques with regard to style. Advanced orchestration techniques will be approached by scoring of selected excerpts with special attention to scoring for a full orchestra using advanced devices for the orchestra. The study of scores, especially those from Impressionism to the present, will be done. This course is intended for any and all students who wish to arrange or compose for orchestra, band, chorus or any other large ensemble. Prereq: Music 242 and 244 or permission of the instructor, and graduate standing.

453/853M History of the Lyric Theater (3) This course will consist of significant music theater works in the western world from 1600 to the present. Prereq: Music 257, 242, 244; junior standing in applied voice; or by permission of instructor.

454/854M Renaissance Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature c. 1350-1600. Prereq: Music History 255, 256, 257, and graduate standing.

455/855M Baroque Music Literature (3) This course is intended for music majors who wish

to undertake a comprehensive survey of music literature from c. 1600-1750. Prereq: Music History 255, 256, 257, and graduate standing.

456/856M Classical Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1750-1815. Prereq: Music 255, 256, 257, and graduate standing.

457/857M Romantic Music Literature (3) This course is intended for music majors who wish to undertake a comprehensive survey of Music literature from c. 1815-1912. Prereq: Music History 255, 256, and graduate standing.

458/858M Music in the Twentieth Century (3) This course is intended for music majors who wish to undertake a comprehensive survey of music literature from the post-romantic period to the present day. The objective will be to provide the student with a broad overview with special attention given to composers and individual works which typify a style or form. Listening assignments will be an integral part of the course, and attendance at live, film and/or television performances will supplement the lectures, discussions and readings. Prereq: Music 256.

460/860M Piano Pedagogy (3) This course is designed for piano majors and private music teachers in "how to teach piano," from the beginning stages through elementary and advanced levels. Procedures of instruction, basic principles of technique and materials used in teaching piano are covered. Prereq: Permission of instructor.

461/861M Voice Pedagogy (3) This course is a study of the physiological and acoustical properties of the vocal mechanism and of the various techniques used in developing the "singing" voice. Also, it will apply knowledge acquired about the voice through studio teaching and observations of other voice teachers. Prereq: Junior-level voice standing or permission of instructor for undergraduate level. Graduate voice standing or permission of instructor for graduate level.

471/871M Acting for Music Theater (2) This course is a study of theoretical and practical approaches essential to developing the "singer/actor." Prereq: Music or drama major. Permission of instructor.

472/872M Choral Literature (3) A survey course in the study of significant choral genre of the various periods of musical composition from

plainsong to contemporary music. This course is intended for senior level students in the kindergarten through twelfth grade music education track and for students working on a masters degree in music education with emphasis in choral music. Prereq: Music 257, 364, and graduate standing.

473/873M Keyboard Literature (3) Survey and study of major piano repertoire from the Baroque keyboard composers to the 20th-century composers. Included are keyboard concertos with orchestra. Prereq: permission of instructor.

474/874M Voice Literature (3) This course is a study of the development of art song in Europe and America. Emphasis will be given to German and French song literature and their influence on English and American song. Prereq: Junior-level voice standing or permission of instructor for undergraduate level. Graduate voice standing or permission of instructor for graduate level.

820V-839V Applied Music (1 or 3) Elective level for graduate students in the music education track for one credit hour. May be repeated. Required for graduate students in the performance track for three credit hours. To be repeated one time. Prereq: Audition and permission.

820V Guitar (1-3)

821V Piano (1-3)

822V Voice (1-3)

823V Violin (1-3)

824V Viola (1-3)

825V Violoncello (1-3)

826V Bass Viol (1-3)

827V Flute (1-3)

828V Oboe (1-3)

829V Clarinet (1-3)

830V Bassoon (1-3)

831V Saxophone (1-3)

832V Trumpet (1-3)

833V French Horn (1-3)

834V Baritone Horn (1-3)

835V Trombone (1-3)

836V Tuba (1-3)

837V Pipe Organ (1-3)

838V Percussion (1-3)

839V Harp (1-3)

846V Analytical Techniques (3) This course will study the major theoretical techniques developed by such important figures as Schenker, Hindemith, Reti and Forte. Music of all styles will be subject for analysis, but emphasis will be on tonal early-twentieth century music. Prereq: Students must be admitted for graduate study and have passed Music 340 and Music 444 or their respective equivalents.

847V Advanced Counterpoint (3) Advanced counterpoint will deal with topics that are frequently neglected in undergraduate counterpoint classes because of lack of time or student background. Emphasis on masterpieces of the art of counterpoint will be made through study and

analysis. Music from a wide variety of media will be presented and students will become familiar with major contrapuntal works in all style periods. Prereq: Students will have graduate standing and should have taken Music 342 or its equivalent before enrolling in the course.

851V Performance Practice (3) This course includes a study of published materials, masterclasses and workshops with visiting artists and intensive performance by the students themselves. Graduate students will not only be expected to join in an intensive study of a particular genre and period, but also to complete a lecture-recital on a specific approved topic. Prereq: Admission to the Graduate College and permission.

852V Music Bibliography (3) This course includes a study of music reference and research materials. Basic procedures and tools of investigative studies are treated, culminating in a research project. Prereq: Graduate level standing and permission.

862V Seminar-Workshops in Music Education (1-3) Seminars and workshops in music and music education for the graduate student and in-service teacher. Prereq: Permission.

863V Research in Music Education (3) A study of research techniques and literature in music and music education toward the objectives of reading and evaluating music education research and doing independent work in the area. Prereq: Graduate standing and permission.

864V Foundations of Music Education I (3) A study of social and philosophical backgrounds of music education through attention to current sociological trends and philosophies of art. Prereq: Graduate standing.

865V Foundations of Music Education II (3) A study of the psychological and historical backgrounds of music education through attention to relevant topics in the psychology of music and learning theory and through relevant readings in the history of music education. Prereq: Graduate standing.

866V Pedagogy of Theory (3) Designed to introduce teachers to the techniques and problems of teaching music theory in elementary and secondary schools and colleges. This will be accomplished through a variety of methods to include a review of texts, teaching, and research. Prereq: It is expected that students are enrolled in the graduate college and have permission of the instructor.

875V Advanced Instrumental Conducting (3) Study of advanced conducting problems in band and orchestral literature and techniques for their solution. Prereq: Music 260 and 363 or 364 or equivalent.

876V Advanced Choral Conducting (3) Advanced Choral Conducting is an in-depth study of the problems in and the techniques required for conducting the following: (a.) Choral music of the plainsong era to the present; (b.) Music for choruses and instrumentalists. Prereq: The prerequisites for this course are the successful completion of Fundamentals of Conducting (Music 260), and Choral Conducting and Literature (Music 364) or the equivalent.

898V Recital (3) This course involves the selection, preparation and public performance of a full recital in the student's major applied area. The recital should demonstrate the student's competency in a variety of styles and make advanced technical and interpretative demands. The course also includes a written project on the music performed at the recital. A full public recital and related written project as approved by the appropriate departmental committee is a graduation requirement for masters level students in the performance track. Prereq: A written proposal for the recital and related written project must be

approved by the appropriate departmental committee.

899V Thesis (3) The purpose of this course is to allow graduate students in Music Education (Option I) to develop a substantive thesis which employs and mirrors research or original thought of a quality and quantity appropriate to advanced work in music education. This course will be handled on an individual study basis with aid and consultation from a faculty thesis advisor and thesis committee. Prereq: Permission of Graduate Committee and twenty-four (24) hours of graduate coursework completed.

POLITICAL SCIENCE

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 at least a 3.0 grade point average in undergraduate political science coursework and must satisfy the Graduate College GRE requirements. In addition, the department requires two letters of recommendation from persons who are in a position to evaluate the applicant's potential for graduate studies before an applicant can be considered for unconditional admission.

Master of Arts

Degree Requirements: The program is intended for those who expect to pursue a doctoral degree. The student must satisfactorily complete thirty semester hours, twenty-four of coursework and six of thesis supervision. Students must maintain a B (3.0) average in their coursework, receiving no more than one C. The thesis is expected to be a mature piece of scholarship. From the four subfields of Political Theory, American Politics, Comparative Politics and International Politics, the student will select an emphasis in two. Twelve hours of coursework will be taken in one area of emphasis and six hours in the other. The remaining coursework is elective and may include cognate courses in related disciplines. Of the twenty-four hours of coursework twelve hours must be at the V level, including 800V (Research Methods). There will be written comprehensive examinations in the two emphasized fields and an oral defense of the thesis.

Master of Science

Degree Requirements: This advanced non-thesis program is specifically designed to enhance career goals in the public service, education and business fields. Thirty-six hours of coursework are required with a minimum of eighteen hours at the V level, including 800V (Research Methods). The student will select courses from the Political Science curriculum but may include up to nine hours of cognate courses in related disciplines. Students must maintain a B (3.0) average in their coursework, receiving no more than one C. Degree candidates must pass written comprehensive examinations covering their areas of study. The aim is to tailor each student's program to fit his or her personal or career interests.

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

404/804M 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 federal and state courts with respect to their powers, judicial selection, the bar, and the reform movements in the most basic of all of man's objectives, 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 public opinion formation and change, the relationship between public opinion and democratic processes, and the effects of public opinion on the operation of the political system. Prereq: For 812M, junior standing.

417/817M Constitutional Law: Foundations (3) Examination of the principles, design and intended operation of the American constitutional system. Analysis of Declaration of Independence, Articles of Confederation, Constitutional Convention, ratification debates. Stress laid on Federalist Papers and on reform criticism of Constitution.

418/818M Constitutional Law: The Federal System (3) Analytical examination of American constitutional law regarding the relations of nation and state (Federalism) and the powers of

the national government (Judicial, Congressional and Executive).

419/819M Constitutional Law: Civil Liberties (3) Analytical examination of American constitutional law as it pertains to civil liberties. Emphasis on 1st, 4th, 5th, 6th, 8th, 13th, 14th, and 15th Amendment cases.

420/820M International Politics of Asia (3) Analysis of contemporary relations among the Asian nations as well as their interactions with the great powers; emphasis on the forces and issues which influence the international system of Asia. Prereq: For 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 relations among members of the communist camp also will be considered. Prereq: For 421, junior standing.

428/828M Inter-American Politics (3) Analysis of the role of Latin American states in the international political arena. Emphasis upon developing, applying and testing an explanatory theory of international politics through the study of the inter-American system: The regional institutional and ideological environment, power relations, policies, and contemporary problems. Prereq: For 428, junior standing.

431/831M Political Theory I (3) Reviews and analyzes the leading political theories of western man from the Hebrews and Greeks to the mid-17th century. Prereq: For 431, junior standing.

432/832M Political Theory II (3) Continues the review and analysis of the leading political theories of western man begun in Pol Sci 431, bringing the study down to the French Revolution. Prereq: For 432, junior standing.

433/833M Political Theory III (3) Continues the review and analysis of the leading political theories of western man begun in Political Science 431 and 432 (Political theory I and II), bringing the study down to the present day. Prereq: For 433, junior standing.

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

436/836M Dictatorship (3) A basic study of theory, practice and practitioners of political dictatorship, its roots, development, major 20th century application and bestiality, and threats to man. Prereq: For 436, junior standing.

437/837M Communism (3) The Marxian message, its use as an impulse to political power, its world-wide extension, and the threat it poses for the world in the hands of the Soviet Union and others. Prereq: For 437, junior standing.

450/850M Government and Politics of Great Britain (3) A comprehensive study of British politics and government. Emphasis will be focused on the formal institutions and informal customs and practices of the British political system. Prereq: For 450, junior standing.

852M Politics in France (3) An examination of the French political heritage, contemporary political institutions and problems, and political and policy responses to these problems. Prereq: Graduate student.

492/892M Topics in Political Science (3) A pro-seminar on selected topics based upon analysis of the literature of political science and/or primary source materials. Prereq: For 492, junior standing or permission of the instructor.

800V Seminar in the Research Methods of Political Science and Public Administration (3) A critical investigation of the methods of data collection and analysis for political science and public administration research. Prereq: Permission of the graduate advisor. (Also listed under public administration.)

804V Seminar in American Government and Politics (3) A thorough analysis of selected aspects of the structure and function of the American political system with emphasis on individual research by the student. Prereq: Permission of graduate advisor.

815V Seminar in Public Law (3) Practical methods of research as applied to specifically selected problems in the areas of administrative, constitutional, and/or international law. Problems studied will correspond to those encountered by government employees, officials, and planners at the national, state, and local level. Emphasis will be varied from semester to semester in accordance with the background and objectives of the students enrolled. Prereq: Three semester hours in public law or permission of graduate advisor.

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

830V Seminar in Political Theory (3) Analysis of selected topics in normative, empirical and ideological political theory and their impact upon practitioners of politics. Prereq: Six hours of political theory or permission of graduate advisor.

850V Seminar in Comparative Politics (3) An examination of the purpose, theories and literature of the field of comparative politics, with evaluation of the theories by application to contemporary political systems. Prereq: Permission of graduate advisor.

880V Independent Study in Topics of Urbanism (1-2) Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. Prereq: Undergraduate major in one of the social sciences. (Also listed under economics, geography, and sociology.)

883V-884V Interdisciplinary Seminar on the Urban Community (3-6) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, geography, and sociology.)

890V Readings in Political Science (3) Specially planned readings 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 adjudged by the political science department to be capable of pursuing a highly independent course of study. Prereq: Permission of graduate advisor.

899 Thesis (3-6) A research project, written under the supervision of a graduate advisor in the Department of Political Science, in which the student establishes his capacity to design, conduct, and complete an independent, scholarly investigation of a high order of originality. The research topic and the completed project must be approved by the student's departmental committee. Prereq: Permission of graduate advisor.

PROFESSIONAL ACCOUNTING

Objectives of the MPA Program

The primary objective of the Master of Professional Accounting degree program is to provide a graduate level educational experience as a basis for a career in professional accounting. Students with or without undergraduate degrees in accounting may be admitted to this program. The program provides a broad-based preparation for individuals seeking careers in public, private, or not-for-profit organizations. By choosing specific elective courses, however, individuals desiring a particular career path may pursue some specialization.

The MPA program is designed for dedicated students with career aspirations demanding a high level of accounting expertise. As such, the program involves both intensive and extensive professional preparation. It requires an intensive analysis of the accounting discipline while providing an extensive base in the supporting areas of economics, finance, and quantitative methods. The program provides the foundation for a career in a profession subject to rapid changes as it adjusts to meet the needs of an increasingly complex business environment. Upon completion of the program, the student will have an educational background required for the following professional examinations: Certified Public Accountant (CPA), Certificate in Management Accounting (CMA), and Certified Internal Auditor (CIA).

Program of Study

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

Admission Requirements

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

$$\text{GMAT (minimum 450)} + (200 \times \text{Upper Division GPA}) = 1070$$

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

Foundation Courses* (36 total semester hours)

Course		Course	
Acc 811H	Survey of Accounting	BA 814H	Business Law Survey
Acc 302	Tax Accounting	BA 815H	Survey of Mgmt. Thought
Acc 303	Intermediate I	BA 817H	Quantitative Survey
Acc 304	Intermediate II	BA 818H	Foundations of Economics
Acc 305	Cost Accounting	BF 325	Corporation Finance
Acc 408	Principles of Auditing	MKT 331	Marketing

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 semester hours)

Required Accounting Courses (9 hrs.)

Acc 821V	Accounting Theory
Acc 823V	Controllorship
**Acc 825V	Seminar in Accounting

Accounting Electives (9 hrs.)

Acc 801M	Advanced Accounting	Acc 824V	Professional Problems
Acc 804M	Federal Taxation of Corporations & Partnerships	**Acc 825V	Seminar in Accounting
Acc 807M	Accounting for Not-for-Profit Organizations	Acc 826V	Tax Research & Planning
Acc 809M	Financial Auditing	Acc 890V	Independent Research
Acc 822V	Federal Estate & Gift Taxation	BA 803V	Business Information Systems

Required Tool Courses (12 hrs.)

BA 800V	Quantitative Analysis	BA 850V	Financial Management
BA 810V	Managerial Economics	BA 880V	Policy, Planning & Strategy

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 6 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. Exceptions should be approved by the MPA Director.
3. Students are also subject to all policies and procedures of the Graduate College as stated in the Graduate Catalog.
4. Students must earn a minimum grade of "B" in BA 880 to successfully complete the course as a graduation requirement.

*All courses are three semester hours.

**The content of this course will change with each offering so that it may be repeated up to 9 hours.

401/801M Advanced Accounting (3) A study of accounting theory, external reporting, consolidated statements, and partnerships, and the accounting for installment sales, branches, and foreign operations. Prereq: Acc 304, Intermediate Accounting II.

404/804M Federal Taxation of Corporations and Partnerships (3) Analysis of the fundamental areas involved in the federal income taxation of corporations; corporate shareholders; and partnerships. Prereq: Acc 302 or equivalent.

407/807M Accounting for Not-for-Profit Organizations (3) A study of the budgeting process, accounting techniques, reporting requirements, and the financial operating characteristics of not-for-profit organizations. Prereq: Acc 202.

409/809M Financial Auditing (3) Provides an in-depth coverage of the professional and technical aspects of financial auditing as performed by independent public accountants. Audit tools, audit program applications, and reporting obligations will be emphasized. Prereq: ACC 408.

820V Managerial Accounting (3) A study of concepts, analyses, and procedures of accounting utilizing internal financial and non-financial data which provides management with information for planning and controlling routine operations, for non-routine decisions, policy making, and long-range planning. Prereq: Accounting Principles or BA 811H, DS 213.

821V Financial Accounting Theory (3) The development of accounting, current accounting theory and present controversies and suggested theory and practice. Prereq: Accounting 304, Intermediate Accounting II.

822V Federal Estate and Gift Taxation (3) Analysis of the federal income taxation of estates, trusts, and their beneficiaries; wealth transfer taxes, basic concepts of international taxation and other business related taxes. Prereq: Acc 302 or equivalent.

823V Controllorship (3) An analysis of the concepts and techniques of the Controllorship function with emphasis on tactical and strategic planning and control. Prereq: Acc 305 and D 213.

824V Professional Problems (3) Questions, problems, and cases are used to develop and refine accounting analysis techniques and written-communication abilities. Prereq: L&S 323, Acc 302, Acc 305, Acc 401, Acc 408, and permission.

825V 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 up to maximum of nine (9) hours. Prereq: Admission to the Masters of Professional Accounting Program and permission.

826V Tax Research and Planning (3) This course is designed to supply students with a working knowledge of the methodology applied in solving both routine and complex tax problems. Familiarity with the techniques will be gained through text material, journal articles and actual application. Prereq: Acc 302 or its equivalent and graduate standing.

890V Independent Research (3) Individual research supplementing graduate study in a specific area within the Accounting discipline. May be repeated to a maximum of six hours. Prereq: Admission to Masters of Professional Accounting program and approval of written proposal.

891V Special Topics in Accounting (3) A variable content course with accounting topics selected in accordance with student and faculty

interest. May be repeated to a maximum of six (6) hours. Prereq: Permission of instructor.

PSYCHOLOGY

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing; Graduate Record Examination scores on the Verbal, Quantitative, and Analytic sections. The Advanced GRE in psychology is not 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 600 on it is required for passing the comprehensive examination and may be achieved at any time (either before or after admission).

The evaluation of admission for all students applying to the Master's program is based primarily on a numerical composite score obtained by combining the last two years of the overall undergraduate GPA (and any graduate coursework completed since graduation) with the average of the three subtests composing 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 be discouraged from applying.

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 have one or more letters submitted in their behalf. Three letters of recommendation are required of those applicants who are seeking a departmental graduate assistantship or are applying to a post-masters program. Exceptions to these admission requirements can be made on an individual basis.

Master of Arts

To complete the M.A. degree with a major in psychology, the student must present 30 hours of graduate coursework in psychology, or 21 hours in psychology plus 9 hours in a related minor field. Up to 6 hours of thesis credit are to be included in this total.

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

- I. A. Psychology 904 (Proseminar in Learning)
B. Psychology 956 (Proseminar in Development)
- II. A. Psychology 921 (Proseminar in Perception)
B. Psychology 923 (Proseminar in Physiological Psychology)
- III. A. Psychology 910 (Proseminar in Analysis of Variance)
B. Psychology 911 (Proseminar in Regression & Correlation)
- IV. A. Psychology 943 (Proseminar in Personality)
B. Psychology 944 (Proseminar in Social Psychology)

The student must earn a grade of at least B in the four required proseminars. If either a C is earned, or an unexcused withdrawal (W) is recorded in a proseminar this course or its pairmate must be retaken and completed with a grade of B or better. Should two such grades (C and/or W) in one or more proseminars become a matter of record at any point in time (even if the initial C or W has been improved upon subsequently) the student will be dismissed from the program. This rule applies to the proseminar series only. However, the accumulation of any three C's or a D or an F in any graduate course on the student's plan of study will also result in dismissal. A dismissed student may appeal to the Graduate Program Committee for consideration of readmission.

The remainder of the student's coursework is elective, but must be planned in conference with the academic advisor, in order to meet the individual needs and interests. Psychology 800V is a non-credit course intended to familiarize the beginning graduate student with the profession of psychology and is required of all graduate students in psychology. The student may emphasize one of the following areas: quantitative, physiological, general experimental, social, personality, developmental, educational, and industrial/organizational psychology. Final determination of a student's plan of study always resides with the advisor and the department. To meet the graduate college requirements, a student must take at least half of the work in courses which are open only to graduate students.

Master of Science

To complete the M.S. with a major in industrial/organizational psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate coursework in psychology. The M.S. degree has the same proseminar requirement as the M.A., and all rules concerning proseminar courses are the same in both degree programs, as well as the requirement of Psychology 800V.

Required courses additional to the proseminars may be designated by the department. This will ordinarily include up to 3 hours of practicum credit. Final determination of a student's plan of study always resides with the advisor and the department. To meet the graduate studies requirements a student must take at least half of the work in courses which are open only to graduate students.

Specialist in Education

The Ed.S. degree requires completion of 66 graduate hours including those taken for the Master's degree. The requirements for this degree are the same as for those leading to certification as a School Psychologist with one addition. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

Doctor of Philosophy

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and in developmental psychobiology. Students may be considered for admission to a doctoral program if they have completed or are doing excellent work toward their Masters degree which includes a demonstration of research skills, preferably in the form of a defended thesis. There is no generally specified language or research skill requirement, but each student is expected to demonstrate proficiency in languages, research skills, or knowledge in collateral research areas appropriate for the student's research interests as determined by the Supervisory Committee.

Industrial/Organizational Psychology

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

Experimental Child Psychology

Doctoral students in this program are required to complete the entire proseminar series of eight courses as outlined above or their equivalent if the student has completed graduate coursework at another school. In addition, the following courses are required: Memory and Learning, Social and Personality Development, Cognitive Development, Language Development, Practicum in Developmental Psychology, and Dissertation. The remaining hours of coursework are determined by the student and the supervisory committee.

Developmental Psychobiology

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

Summary of Procedure for the Doctor of Philosophy Degree

This summary of procedure should be studied carefully in connection with the Graduate College calendar.

1. Admission to the UNL Graduate College by the evaluation of official transcripts presented in person or by mail prior to registration.
2. Registration after consultation with advisors in major and minor departments.
3. Appointment by the UNL Graduate Office of a supervisory committee on the recommendation of the departmental or area Graduate Committee.
4. Submission to the UNL Graduate Office of a program approved by the supervisory committee setting forth the complete plan of study for the degree prior to completion of more than half of the minimum requirements.
5. Satisfactory completion of foreign language or research tool requirements set forth in the approved program and passing of comprehensive examinations in major and minor or related fields when the student's program of courses is substantially completed.
6. Submission to the UNL Graduate Office of a report from the supervisory committee on the specific research for the dissertation and progress to date.
7. Admission to candidacy for the Ph.D. degree by filing a report in the Graduate Office of the passing of the comprehensive examinations and the completion of language and research tool requirements (at least seven months before the final oral examination). The term of candidacy is limited to three years.
8. Filing of an application for the degree at the Registration and Records Office, Information Window, 208 Administration Building at UNL. This application is effective during the current term only. It must be renewed at the appropriate time if requirements for graduation are not completed until during a later term.
9. Presentation of the dissertation and the abstract to the members of the reading committee in sufficient time for review and approval, which must be obtained at least three weeks prior to the final examination.
10. Presentation to the Graduate Office of two copies of the approved dissertation, three copies of the approved abstract, and the application for the final oral examination at least three weeks prior to the date of that examination.
11. Passing of any required final oral examination.

12. Deposition of two copies of the dissertation in proper form, one copy of the abstract, and a signed agreement for microfilming the dissertation and publication of the abstract, with the UNL Director of University Libraries. Delivery of the certificate of deposit, signed by members of the supervisory committee, the UNL Director of University Libraries, and UNL Comptroller, to the Graduate Office. In addition, one bound copy of the dissertation is to be deposited with the student's major department.

Professional Programs in the Area of School Psychology

Application

Application for admissions to the programs in school psychology must be filed with the School Psychology Committee of the Psychology Department. The application should include official transcripts of all previous college work, scores for the Graduate Record Examination Aptitude Test, a vita, and three letters of recommendation. Students who have not been admitted to Graduate Studies previously must apply to the Director of Admissions, also. Applications must be completed by April 1 for the following Fall semester. A second application period is possible, should openings exist. These applications must be completed by November 1 for the following Spring. Before a final decision is made concerning admission the applicant must be interviewed by at least two members of the School Psychology Committee.

Certification

Students may take work leading to a recommendation for certification as a school psychologist. A minimum of thirty semester hours of work beyond the Masters degree is required for the recommendation. Filing of an acceptable plan of study with the Graduate Office will be required on admission to the program. Students will arrange their programs according to the subject matter areas below. In addition to the courses required for the 30 hours beyond the Masters degree the student must complete requirements for the Master of Science in Educational Psychology or its equivalent. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of electives. However, the final decision on the appropriateness of a program rests with the Psychology Department. Students should contact the School Psychology Committee when starting their studies in order to facilitate individual program planning. The student's advisor should be a member of the School Psychology Committee.

The Ed.S. degree in school psychology requires completion of 66 graduate hours including those taken for the Masters degree. The requirements for this degree are the same as for those leading to certification as a school psychologist with one addition. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology. The student must consult with the School Psychology Committee before starting the specialist project.

1. Required Courses in Psychological Methods

- Psychology 831M (or 431) Psychological and Educational Testing
- Psychology 800V The Profession of Psychology
- Psychology 853V Individual Tests I
- Psychology 854V Individual Tests II
- Psychology 851V Advanced Educational Psychology
- Psychology 958 Personality Assessment
- Psychology 979 Topical Seminar in School Psychology

One of the following three courses:

- Psychology 855V Introduction to Therapeutic Techniques with Children
- Psychology 857V Behavior Modification
- Psychology 957 Applied Behavior Analysis

One of the following three courses:

- Psychology 855M (or 455) Retardation
- Psychology 859M (or 459) Psychology of Exceptional Children
- SPED 860M (or 460) Introduction to Mental Retardation

2. Required Professional Education Courses

- COUN 824V Counseling Practices
 - EDAD 835V Introduction to Educational Administration and Supervision
- One of the following two courses:
- Eled 843V Introduction to Curriculum Planning-Elementary
 - SED 830V Emerging School Curriculum

3. Required Supporting Work

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

4. Practicum in School Psychology (Psychology 997)

The student's program must include from 4 to 6 credit hours of practicum. The general rule is that 50 clock hours are required for each hour of credit. The usual practice is for a 3-hour practicum emphasizing assessment and a 3-hour practicum emphasizing behavioral intervention. At least half of the credits must be earned in a school setting. Each practicum is developed to

meet individual student's needs and must be approved by the School Psychology Committee before the student is allowed to enroll.

Application for admissions to the programs in school psychology must be filed with the School Psychology Committee of the Psychology Department. The application should include official transcripts of all previous college work, scores for the Graduate Record Examination Aptitude Test, a vita, and three letters of recommendation. Students who have not been admitted to Graduate Studies previously must apply to the Director of Admissions, also. Applications must be completed by April 1 for the following Fall semester. A second application period is possible, should openings exist. These applications must be completed by November 1 for the following Spring. Before a final decision is made concerning admission the applicant must be interviewed by at least two members of the School Psychology Committee.

5. Internship in School Psychology (Psychology 998)

An internship totaling at least 1000 clock hours must be completed before the student will be recommended for endorsement as a school psychologist. This will normally be taken after the student has completed all other requirements, including both practicum experiences. The intern must have an endorsement as a psychological assistant. The internship is usually completed in one of the Omaha-area schools but other sites are possible. The exact details of the internship are worked out by negotiations involving the student, the advisor, and a representative of the school system involved. Results of these negotiations must be approved by the School Psychology Committee. The student may sign up for 3 credit hours for each semester of internship completed.

Psychological Assistant

Students who are pursuing work toward certification in Nebraska as Psychological Assistants must simultaneously complete requirements for the M.A. or M.S. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they make application for degree candidacy in order to ensure that required courses are included in the plan of study for the degree. In any event, students must have been accepted in this program before enrolling in Psychology 853V or 854V. Application should be made to the Psychology Department and three letters of recommendation are required. Required courses in this program are: Psychology 831M (431), 800V, 853V, 854V, and 897V, and one of the following: Psychology 859M (459), 855M (455), or SPED 860M (460). The student must also have had coursework in both learning and developmental psychology.

Recommendation for Certification

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

401/801M History of Psychology (3) A study of the origins, development, and nature of psychology and its relation to external events; emphasis on the period since 1875. Prereq: None.

406/806M Environmental Psychology (3) A study of effects of natural and artificial environments on human behavior. Particular emphasis on effects of spatial arrangements and their interactions with social distance, territoriality, privacy and such. Prereq: Basic Statistics or Experimental Psychology with laboratory or permission.

407/807M Cognitive Processes (3) An exploration of historical and contemporary research and theory concerned with higher cognitive processes including concept formation, problem solving, creativity, memory, and symbolic behavior. Prereq: Psychology 301 or 904 or permission.

425/825M Limits of Consciousness (3) A survey of theories, practices and research on altered states of consciousness. Emphasis on experiential as well as intellectual proficiency. Prereq: None.

427/827M Animal Behavior (3) Behavior of diverse animals for the understanding of the relationships between nervous integration and the

behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. Prereq: Psychology 101 and Biology 175 or permission. (Same as Biology 427 and 827M).

428/828M Animal Behavior Laboratory (2) Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiences and independent studies will be conducted. (Same as Biology 428/828M) Prereq: Biology/Psychology 427/827M or concurrent enrollment.

431/831M Psychological and Educational Testing (3) The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity. Prereq: Psychology 102 or 351.

433/833M Individual Differences (3) A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical traits, and environment in causation of individual differences in mental traits. Prereq: 9 hours of psychology, including Psychology 101 and Psychology 213 or equivalent.

443/843M Psychoanalytic Psychology (3)

The study of Sigmund Freud, psychoanalytic theories, and current theories of sleep and dreams. Readings are emphasized. Prereq: None.

444/844M Abnormal Psychology (3) A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy, and prognosis of syndromes are considered. Prereq: Psychology 101.

445/845M Personality Theories (3) A comparative approach to the understanding and appreciation of personality theories considering history, assertions, applications, validations, and prospects. Prereq: None.

447/847M Jungian Psychology (3) The study of C. G. Jung's analytical psychology, and related philosophy, theology, and literature. Readings are emphasized. Prereq: None.

448/848M Eastern Psychology (3) Theory and techniques of eastern psychology with emphasis on experiential understanding. Daily practice of meditation required.

452/852M Psycholinguistics (3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech sounds. Prereq: Permission of instructor.

455/855M Retardation (3) This course considers significantly subaverage intellectual functioning originating during the developmental period and associated with impairment in adaptive behavior. Research is emphasized. Prereq: Psychology 431/831M; or Psychology 213 or equivalent and Psychology 343 or 445/845M.

457/857M Introduction to Behavior Modification (3) Introduction to the experimental methodology, rationale and research literature of changing behavior through behavior modification techniques. Particular attention will be paid to methodological concerns regarding single subject design, ethical considerations, and ramifications of behavior intervention with children and youth. Prereq: Psychology 101, Psychology 301, and permission of instructor.

459/859M Psychology of Exceptional Children (3) A study of exceptional children and adolescents 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.

480/880M Social Work, Psychology, and the Law (3) An examination of some of the legal aspects of selected social welfare policy issues such as abortion, illegitimacy, alcoholism and drug addiction, creditor and debtor's rights, landlord and tenant relationships, housing law, right to treatment, status of the convicted individual, mental health commitment procedures. Prereq: SW 311 or its equivalent, at the graduate level SW 805 or permission.

800V The Profession of Psychology (0) A required non-credit course for graduate students in psychology. Intended to familiarize the beginning graduate student with the profession of psy-

chology including such topics as ethics, professional organizations, job and educational opportunities, the use of reference materials, licensing and certification, and other relevant material.

806V Computer Concepts in Psychology and the Behavioral Sciences (3) An introductory course emphasizing the applications of computers in the areas of psychology, sociology, and education. Includes a functional description of computers and a discussion of programming languages as well as specific uses. Prereq: Psychology 213 or equivalent.

814V Nonparametric Statistics (3) A study of distribution-free statistics in particular emphasis on application of distribution-free tests to research problems in social behavioral sciences. Prereq: Psy 213 or equivalent.

850V Introduction to School Psychology (3) This course is intended for the introductory graduate student in either the psychological assistant or school psychologist programs. It will constitute one of the student's first exposures to the professional field of school psychology involving standards of practice. The consultation model of school psychological services will be utilized and generalizations regarding practice will be offered. Prereq: Admission to the graduate program and psychological assistant or school psychologist program.

851V Advanced Educational Psychology (3) A study of the principles of learning and testing and their applications to problems of contemporary education, particularly to those problems existing in the classroom. Prereq: Psychology 351.

852V Clinical Assessment I: Foundations (3) This is an introductory or survey course on the clinical and subjective aspects of human assessment. It is intended to serve as the foundation for more advanced study of assessment according to disciplinary specialization. Clinical considerations are applied to professional judgment, diagnostic interviewing, observational analysis, rating scales, standardized intellectual and personality tests, objective personality methods, and critical social issues (relevant to assessment). Prereq: Admission to graduate study in psychology, social work, sociology, or education; Psych 831M or equivalent recommended as a prerequisite.

853V Individual Tests I (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master's degree and Psychology 431/831M or 909 and admission to either psychological assistant or school psychologist program.

854V Individual Tests II (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing. Prereq: 16 graduate hours of psychology including completion of all required courses for the master's degree and Psychology 431/831M or 909 and admission to either psychological assistant or school psychologist program.

855V Introduction to Therapeutic Techniques with Children (3) The purpose of this course is to become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. The history and methods of and the research with play therapy are considered. Prereq: Permission of instructor.

856V Learning in Children (3) A course dealing with learning in infants, children and, for comparison purposes, adults. Research relevant to developmental differences in learning ability will be emphasized. Content areas included will be learning methodology with infants and children, learning in infancy, probability learning, transposition and reversal shift learning, imprinting, habituation and imitation learning.

859V 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. Research methods and theory, as they apply to social and personality development, will be emphasized throughout the course. All students will be expected to design and conduct a mini-observational study in the area of social and personality development.

860V Psychology of Women (3) A course providing comprehensive coverage of psychological theory and research pertaining to women. Critical analysis of theoretical and experimental issues will be emphasized. Students will participate in the conduct of the course and will be expected to write an appropriate research proposal. Prereq: Graduate standing, any department, or by permission of instructor.

890V Problems in Psychology (1-6) A faculty supervised research project, involving empirical or library work and oral or written reports. Prereq: Written permission of the department.

895V Practicum in Industrial Psychology (1-6) Faculty supervised experience in industry or business designed to bridge the gap between the classroom and a job, emphasizing use of previously acquired knowledge in dealing with practical problems. Prereq: Written permission of your practicum committee.

897V Practicum in Educational Psychology (1-6) Faculty-supervised experience in an educational agency designed to acquaint the student with practical problems faced by psychologists who work in an educational setting. Prereq: Written permission of your practicum committee.

898V Practicum in Developmental Psychology (1-6) Faculty supervised experience in a setting designed to provide a practical understanding of theoretical concepts of human development. Emphasizes direct observation and/or personal interaction as a means of training, and can be directed toward various populations within the developmental life span (e.g., infants, preschoolers, middle childhood, adolescents, adults, aged persons). Prereq: Psychology 956 and permission of the Developmental Psychology Area Committee.

899 Thesis (1-6) Independent research project written under supervision of a faculty committee. May be repeated up to a total of 6 hours. Prereq:

Written permission of your thesis committee.

903 Seminar: Psychology of Motivation (3-9) A topic area within the field of motivation will be explored in depth. Each year, the specific topic will be selected to coincide with that of the Nebraska symposium on motivation. Students enrolled in the course will be expected to attend the symposium which is held in Lincoln. Prereq: Graduate standing and instructor's permission.

904 Proseminar: Learning (3) A comprehensive and intensive coverage of the experimental literature on learning in humans and animals. Prereq: Permission of instructor.

909 Theory of Measurement and Design (3) Study of the theoretical and practical problems related to the development and use of psychological measures and research designs, covering such topics as scaling, test development, reliability, validity, interpretation of results, and generalizability. Prereq: Psychology 213 or equivalent.

910 Proseminar: Analysis of Variance (3) A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of variance model. Prereq: Permission of instructor.

911 Proseminar: Regression and Correlation (3) This course is intended for graduate students in psychology as a part of a core requirement for four proseminars. It is appropriate for persons in other disciplines interested in a correlation approach to the study of relationships among variables, also. Prereq: Permission of instructor.

912 Multivariate Statistical Analysis (3) An examination of statistical techniques for describing and analyzing multivariate data commonly collected in behavioral research. Analytic techniques derived from the general linear model will be considered, focusing on proper interpretation and use. The course is intended for doctoral students in psychology and (selectively) for advanced masters students in the behavioral sciences. Prereq: Psychology 909, 910, and 911 or permission of instructor.

921 Proseminar: Perception (3) A comprehensive and intensive coverage of the experimental literature on perception in humans and animals. Prereq: Permission of instructor.

923 Proseminar: Physiological Psychology (3) A systematic study of the physiological processes underlying behavior. Prereq: Permission of instructor.

929 Seminar in Developmental Psychology (3-6) A theoretical and empirical analysis of neuro- and other physiological changes correlated with and contributing to developmental processes in infra-human and human subjects. Prereq: Completion of the psychology proseminar sequence or equivalent and permission of instructor.

932 Seminar in Program Evaluation (3) This course is intended to help advanced graduate students in the applied social sciences understand the literature and conduct evaluation research. The history of program evaluation and philosophies manifest in evaluation research are reviewed, alternative evaluation models are dis-

cussed, 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 considering the effects of personality variables on behavior. A historical, theoretical, psychometric, and experimental approach will be emphasized. Prereq: Permission of instructor.

944 Proseminar: Social Psychology (3) Examination of theories, research findings and controversies in social psychology. Topics will include socialization; person perception; interpersonal attraction, leadership and group effectiveness; attitudes, attitude measurement, and attitude change; intergroup relations, power and social influence. New topics will be added as they become part of the 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 abnormality. 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.

952 Linguistic Development (3) Theory and research concerning the acquisition of language are discussed. Attention is paid to long-standing controversies in developmental psycholinguistics, as well as to the most recent observational and experimental data regarding phonological, syntactic, and semantic development. Prereq: Psychology 956, Proseminar in Developmental Psychology.

953 Cognitive Development (3) This course covers contemporary issues in theory and research concerning the development of processes by which environmental information is perceived, attended to, stored, transformed, and used. Both Piagetian and information processing orientations will be emphasized. Prereq: Psychology 956, Proseminar in Developmental Psychology.

956 Proseminar: Developmental Psychology (3) A comprehensive and intensive coverage of the experimental literature on human and infra-human development. Prereq: Permission of the instructor.

957 Applied Behavior Analysis (3) A comprehensive introduction to experimental methodology in applied behavior analysis. Topics covered include observational recording systems, reliability indices, procedural implementation of behavioral techniques, single-subject research designs, and a broad review of the research literature. Prereq: A minimum of one course in learning theory (Psy 856V, 857V, 904, or equivalent) and permission.

957L Laboratory in Applied Behavior Analysis (3-6 hrs) Laboratory work coordinated

with Psychology 957 (Applied Behavior Analysis) consisting of the systematic application of behavioral technology within the context of single-subject experimental designs. Emphasis will be on the modification of behavior of children with cognitive, social, or behavioral problems. Prereq: Psy 957 or permission.

958 Personality Assessment (3) A course dealing with projective and objective methods for personality assessment and intended for advanced graduate students in psychology preparing to be clinical practitioners in schools and mental health facilities. Prereq: Foundation courses in tests and measurements, abnormal psychology, and personality theories; two courses in individual intelligence testing; and permission of the instructor.

959 Seminar in Developmental Psychology (3-9) Faculty and student presentations organized around one of the following three major subdivisions of child psychology: (1) Social and personality development, (2) Developmental changes in conditioning and learning, (3) Cognitive growth and functioning. The course may be repeated each time a different topic is covered, up to a maximum total of nine credit hours. Prereq: Completion of the proseminar sequence and permission of the instructor.

961 Industrial Motivation & Morale (3) A course focusing on theory and research in the areas of work motivation, work behavior, and job satisfaction. Emphasis is placed on such topics as expectancy theory, job redesign, leadership, absenteeism, turnover, goal setting and behavior modification. Prereq: Admission into industrial psychology graduate program.

962 Industrial Training and Development (3) An analysis of the theoretical and practical problems of conducting training programs in industry including diagnosis, design, implementation, and evaluation. Emphasis is placed on practice in designing and implementing training programs in response to actual industrial situations. Prereq: Admission to industrial psychology graduate program.

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

966 Criterion Development and Performance Appraisal (3) An in-depth examination of the fundamentals of personnel psychology including job analysis, criterion development, and performance measurement and appraisal in organizations. Practical experience in the application of techniques and procedures is emphasized through group and individual projects in organizational settings. Prereq: Psychology 909 (may be taken concurrently).

967 Personnel Selection (3) An exploration of current theory and practice in personnel selection. Problem solving strategies are emphasized through the design, analysis, and interpretation of selection research and the implementation of selection programs consistent with Equal Oppor-

tunity Guidelines and federal law. Prereq: Psychology 966.

979 Seminar in School Psychology (3) This course is designed to give the advanced student in the School Psychology Program an overview of significant professional topics in the field. Ordinarily such topics as state licensing laws, state of Nebraska certification requirements, public and state laws, special education department guidelines, roles and functions, and ethics will be included in the course. Every attempt will be made to take the principles from the classroom and develop the principles of practice which constitute the field of school psychology. Prereq: Completion of a Master's degree, and admission into the School Psychology Program.

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

995 Practicum in Organizational Behavior (1-6) Faculty supervised experience in industry or business designed to bridge the gap between the classroom and a job, emphasizing use of previously acquired knowledge in dealing with practi-

cal problems. Prereq: Permission of department and admission to doctoral program.

996 Research Other Than Thesis (1-12) Research work under supervision of a faculty member. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level and permission of the department.

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

998 Internship in School Psychology (3-6) A systematic exposure to the practice of psychology in the schools. School consultation in a variety of educational settings will be undertaken. The student's responsibilities will be documented in a contractual agreement between the intern student and the local and university supervisors. Prereq: Completion of 4 hours of Psychology 997 and written permission of the School Psychology Committee.

PUBLIC ADMINISTRATION

Master of Public Administration

The Master of Public Administration (MPA) is a professional graduate degree designed: (1) to prepare students for careers in the public service — national, state, local or nonprofit agencies and (2) to provide professional development opportunities for those already in the public service.

Professionals with general administrative skills are needed in all areas of government. The MPA Program stresses the development of management and administrative abilities, important to both staff specialists and administrators.

Students in the MPA Program will likely come from widely differing backgrounds. Some may come from current public employment and professions such as law, hospital administration and business administration while others may enter with degrees in the social sciences, engineering, business, human services, or the humanities.

The MPA courses are regularly offered at night to meet the needs of full-time employees. The Department of Public Administration is a member of the National Association of Schools of Public Affairs and Administration (NASPAA). In 1980, the MPA Program was placed on the National Roster of Programs found to be in substantial conformity with NASPAA Standards for Professional Masters Degree Programs in Public Affairs and Administration.

Degree Requirements

Thirty-nine graduate credit hours are required for the MPA degree, including 36 hours of coursework and a three-hour internship. The coursework shall include 18 hours of core courses, required of all MPA students. The elective courses, chosen by the student with the assistance of a departmental advisor, may include one of the 12-hour options listed below or may, on occasion, include a separate 12-hour plan of study designed to meet a particular set of career development needs. For students who have not completed courses in accounting, statistics or Introduction to Public Administration or equivalent, graduate level equivalents are required.

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

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

Admission

The general prerequisite for admission to the MPA Program is a Bachelor of Arts or Bachelor of Science degree or equivalent.

To be admitted **unconditionally**, the student must have achieved a grade average of 3.00 on a 4.00 system for either the full undergraduate program, for the undergraduate major of Public Administration, or for the junior-senior years and must have completed all other admission requirements for Graduate Studies. This includes completion of one of the following: The Graduate Record Examination (GRE), the Miller Analogies Test (MAT), the Graduate Management Admissions Test (GMAT), or the Law School Admissions Test (LSAT).

Provisional admission may be granted where the applicant has achieved a grade average of 2.70 or above or has not completed one of the four examinations (GRE, MAT, GMAT, LSAT). Exceptions to the 2.70 grade point average may be made by the Graduate Program Committee in conjunction with the Graduate Dean where the applicant:

- has a demonstrated record of public sector administration; or
- has a graduation date at least four years previous to application; or
- has demonstrated through recent coursework an ability to successfully complete graduate work.

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

Application for Candidacy

In accordance with Graduate College guidelines, students must apply for candidacy for the degree when: (1) a minimum of six hours of graduate credit necessary to the degree program have been completed; (2) a grade average of "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 filed 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 a transfer of credit should be made as soon as possible but in no case later than when filing for candidacy. The request to transfer credits requires a letter of explanation from the student.

Core and Required Courses

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

1. PA 480M Public Budgeting
2. PA 841M Public Personnel Management (or PA 846V, Seminar in Public Personnel Management if credit has been earned in undergraduate PA 441 courses)
3. PA 842V Seminar in Introduction to Public Organizations
4. PA 844V Seminar in Organization Development in Public Agencies
5. PA 845V Seminar in Advanced Management Analysis
6. PA 848V Seminar in Public Financial Administration

The following courses may be required, depending upon a student's academic and professional background.

1. PA 800V 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 805V Survey of Public Administration
(Required if student's undergraduate education does not include an introduction to public administration course. Elective for others.)
3. PA 810V Seminar in Public Administration
(Required if student's undergraduate education does not include adequate training in accounting as determined by the Graduate Committee. Elective for others.)
4. PA 803U 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 advisor. It is possible under exceptional circumstances to substitute other courses with approval of advisor.)

- PS 804M The Legislative Process
- PS 805M The Judicial Process
- PA 843M Municipal Administration
- PA 810V Seminar in Public Administration
- Econ 856M State and Local Finance
- PS 815V Seminar in Public Law
- PA 830V Seminar in Public Policy
- PA 846V Seminar in Public Personnel Management
- PA 849M Public Sector Labor Relations
- PA 850V Issues in Public-Private Sector Cooperation
- PA 855V Issues in the Administration of Non-Profit Organizations
- PA 860V Seminar in Administrative Law

- PA 870V Seminar in Grants and Contracts
- PA 881V Urban Seminar in Metropolitan Planning and Development
- Econ 887V Seminar in Regional Economics
- PA 892V Readings in Public Administration
- PA 894V Research in Public Administration

Gerontology Option (12 hours to include courses from the following selected in consultation with advisor to fit the student's particular needs.)

- Gero 811M Applied Social Gerontology
- Gero 855M Health Aspects of Aging
- Gero 858M Gerontology Psychology
- Gero 892M Special Studies in Gerontology
- SW 814V Social Work Practice III (Macro)
- SW 862M Social Welfare and Institutional Racism
- PA 802V Race, Ethnicity and American Urban Culture

Local Government Option (12 hours from the following selected list in consultation with advisor. It is possible under exceptional circumstances to substitute other courses with approval of advisor.)

- Geog 812M Urban Geography
- PA 843M Municipal Administration
- Econ 856M State and Local Finance
- PA 810V Seminar in Public Administration
- PA 830V Seminar in Public Policy
- PA 849M Public Sector Labor Relations
- PA 850V Issues in Public-Private Sector Cooperation
- PA 855V Issues in the Administration of Non-Profit Organizations
- PA 860V Seminar in Administrative Law
- PA 881V Urban Seminar in Metropolitan Planning and Development
- Econ 885V Seminar in Urban Economics
- PA 892V Readings in Public Administration
- PA 894V Research in Public Administration

The Planning Option (12 hours to include CRP 811 plus nine hours of coursework from the following list selected in consultation with advisor.)

The option stresses the planning process and related skills and techniques. Students selecting this option should plan on taking one or more courses on the Lincoln campus in order to complete the program expeditiously.

Required courses:

- CRP 811 Urbanism and Planning in the U.S.

Elective courses:

- CRP 813 Planning Process and Theory
- CRP 415/815 Housing Renewal and Development
- CRP 822 Research Methods for Planning
- CRP 828 Planning Administration and Implementation
- CRP 897 Selected Topics in Planning
- CRP 898 Special Problems in Planning
- CRP 913 Planning and the Natural Environment
- CRP 917 Planning with Minority and Low Income Groups
- CRP 924 Human Resource Planning
- PA 881V Urban Seminar in Metropolitan Planning and Development

Public Works-Civil Engineering Option (12 hours from the following selected list in consultation with 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 administration students who have little or no formal engineering training. A tentative list of Civil Engineering courses requiring no prerequisites or engineering background is presented below. The student will be encouraged to select courses from at least three of the four fields of interest in order to encourage breadth in his educational experience. Other courses may be available to the student with instructor's consent or if sufficient demand warrants additional offerings.

Transportation

- CE 468 Traffic Engineering
- CE 468 Transportation Geometrics
- CE 485 Urban Transportation Planning
- CE 486 Transportation Planning and Economics

Sanitary

- CE 800 Environmental Quality and Control
- CE 826 Environmental Pollution Control

- Water Resources**
 CE 914 Water Resources Planning
 CE 916 Case Studies in Water Resources
Design and Construction
 CE 469 Pavement Analysis and Design
 CE 842 Construction Management

Social Work or Social Welfare Option (12 hours from the following selected list in consultation with advisor.)

- SW 800V Human Behavior and the Social Environment
 SW 805V Social Welfare Policy and Services
 SW 850V Task Groups in Macro Practice
 SW 852V Social Work Administration
 SW 854V Social Welfare Planning
 SW 856V Supervision in Social Work
 SW 858V Advanced Policy Analysis and Implementation
 SW 860M Social Work Practice in Mental Health
 SW 866M Social Work Practice in Child Welfare
 SW 870V Alcohol Abuse: Comprehensive Treatment Program
 SW 890V Special Studies in Social Welfare

The Environmental Option (12 hours to include at least one of the courses listed below, the remaining part of the program to be custom designed for the student at the discretion of the Graduate Program Committee of the Biology Department.) Students selecting this option must be approved for entrance into the graduate program by both the Department of Public Administration and the Department of Biology.

- Biol. 819V Communities and Ecosystems
 Biol. 883V Environmental Physiology
 Biol. 820V Plant Ecology

The Law Enforcement Option (12 hours to include CJ 801V, Seminar in Criminal Justice Planning and Innovation; CJ 802V, Seminar in the Administration of Justice; CJ 812V, Criminal Justice Research Theory and Methodology, plus six hours from the following list selected in consultation with Advisor.)

- CJ 803V Comparative Law Enforcement Systems
 CJ 804V Seminar in Community Services and Treatment
 CJ 805V Seminar in Criminal Jurisprudence
 CJ 807V Theoretical Criminology
 CJ 808V Seminar in the Processes of the Criminal Justice System
 CJ 809V Seminar in Delinquency Prevention, Control and Correction
 CJ 811V Special Problems in Criminal Justice
 CJ 812V Criminal Justice Research

URBAN STUDIES

Master of Science with a Major in Urban Studies

This is a professional graduate degree which is designed: (1) to prepare students for human service careers in an urban setting; (2) for research or teaching in this field; (3) for those already involved in urban programs and are seeking additional professional training.

Qualified urbanists are being sought by a wide range of employers. Private corporations as well as public agencies are seeking employees who have a broad range of technical skills and an understanding of the problems of contemporary urban society.

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

For a student to be admitted unconditionally to the M.S. program he/she must have an undergraduate grade point average of at least 3.00 on a 4.00 system. In addition, if the student's undergraduate preparation in the social sciences is insufficient, additional preliminary work may be prescribed which he must complete before he is accorded unconditional admission. These additional courses do not carry graduate credit, but other courses for graduate credit may be taken simultaneously.

Degree Requirements

Thirty-six semester hours of coursework are required. A core of six required courses will be completed, and nine credit hours must be taken from one of three areas of concentration. The required courses include Urban Studies 801V, 802V, 882M, 883V, 884V; and a graduate course in research methods. Courses applicable to the area of concentration may include but are not necessarily restricted to: Community and Regional Planning 811M, 813M, 815M, 924; Public Administration 805V, 843M, 881V; Sociology 810M, 814M, 875M; Gerontology 810M, 835M, 848M; Counseling and Guidance 800V, 829M, 879M; Geography 812M, 880V, 881V. A maximum of nine hours of optional credit may be selected from Economics 831M, 832M, 833M, 885V; History 843M, 844M, 847M; Geography 801M, 813M, 821V; or any of the courses listed above, subject to approval. Eighteen hours of the coursework must be at the 800V level.

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 study 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 Public Personnel Management (3) A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance. Prereq: For 441, PA 217, junior 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 301, junior standing. For 843M, Pol Sci 301, PA 217.

849M Public Sector Labor Relations (3) This course deals with the origin, characteristics, and implications of public sector employee unions and how they relate to public sector personnel practices. Prereq: Permission of advisor.

860M Administrative Law (3) A review of the principal elements of the role and character of legal processes in government administration, including delegation of powers, legal forms of administrative action, liability of government units and officers and judicial review of administrative action. Prereq: Permission of graduate 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 homesteading, administrative federalism, and economic development and the public sector. Prereq: Permission of advisor.

800V Seminar in the Research Methods of Political Science and Public Administration (3) A clinical investigation of the methods of data collection and analysis for political science and public administration research. (Also listed under political science.) Prereq: 217, permission of graduate advisor.

805V Survey of Public Administration (3) This course is designed for graduate students who have had no undergraduate introduction to Public Administration coursework. It involves a study of the environment of public administration, introducing the student to public organization theory and practice and functions and problems of the

public administration process. This course does not count toward the 39 hours required for the MPA degree. Prereq: Course in American government or permission.

810V Seminar in Public Administration (3) An in-depth study of the relationships existing between the art and science of public administration, on the one hand, and the processes of government on the other. The emphasis is principally on broad categories of political and administrative issues as they condition each other. Prereq: Permission of graduate advisor.

842V Seminar: Introduction to Public Organizations (3) A study of the various approaches to understanding public organizations and the relationship of these approaches to the design and functioning of public agencies. Prereq: Permission of graduate advisor.

844V Seminar in Organization Development in Public Agencies (3) A study of the theory and practice of organizational development in public agencies. Development of interpersonal skills in dealing with organizational problems is stressed. Prereq: Permission of graduate advisor.

845V Seminar in Advanced Management Analysis in Public Agencies (3) A study of theory and method related to analysis of problems of organization and workflow in public agencies. The course includes problem analysis, field study methods, design of improved methods and measures of impact. Prereq: Permission of graduate advisor.

847V Administrative Ethics (3) This course is designed to make students of public management aware of and sensitive to the ethical components of public sector administration. Ethical concerns permeate much of what public administrators do, and this course focuses on identifying common ethical concerns along with their implications and consequences. Prereq: PA 217 Introduction to Public Administration or permission of the instructor.

848V Seminar in Public Financial Administration (3) Financial organization, intergovernmental financial relations, and the administrative and political aspects of budgetary planning and control. Prereq: Permission of graduate advisor.

850V Issues in Public-Private Sector Cooperation (3) This course introduces students to the organization and processes, as well as the tools and techniques, of public-private sector cooperation. The objective of such a course is to familiarize students with the concepts and skills needed to develop and administer joint activities between the public and private sectors. Such cooperative activities have become an important aspect of public administration in recent years. Prereq: Permission of advisor.

855V Issues in the Administration of Non-Profit Organizations (3) This course focuses on the administration and management of

non-profit organizations and the relationships between non-profits and government. Prereq: Permission of advisor.

870V Seminar in Grants and Contracts (3) A seminar in the development, acquisition and administration of grants and contracts. The course will include legal considerations, planning and strategy for applicant and awarding agencies, program/problem analysis for proposals and the like. Prereq: Graduate standing with P.A. major, or permission of the instructor.

881V Seminar in Metropolitan Planning (3) An overview of the present status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans, and problems of annexation. Prereq: Geo 412 or recommendation from pol sci, soc, or econ departments. (Also listed under geo.)

892V Readings in Public Administration (1-3) Specially planned readings in public administration for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is adjudged by the department to be capable of pursuing a highly independent course of study. Prereq: Permission of graduate advisor.

894V Research in Public Administration (1-3) The course is intended for advanced graduate students in public administration. It is especially suited for those in-career students who have had their internships waived and who might profit more by in-depth research on a problem of public

administration rather than additional classroom courses. Prereq: 15 hours graduate work in public administration and permission of faculty advisor.

803U/804U Internship (3 per sem.) Maximum of 6 to be granted upon completion of written report on internship. Internship in some government: national, state, local. Prereq: All coursework for the M.P.A. completed.

Urban Studies

822M Comparative Urban Studies (3) Comparative urban studies: Emphasis will be upon contrasting the cities of the developed and developing areas of the world. (Also listed under geography.)

801V The Metropolis as a Public Economy (3) The integration of politics and economics in the metropolitan system as they affect metropolitan problems such as poverty, transportation, housing, crime, education, and the environment will be analyzed.

802V Race, Ethnicity, and American Urban Culture (3) This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and American culture.

883/884V Interdisciplinary Seminar on the Urban Community (3-6) An interdisciplinary course on the metropolitan community in which urban problems are put in a broad interrelated focus. (Also listed under economics, geography, political science, and sociology.)

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 transaction with the environment (i.e., family, friends, associates, and the community at large). Social workers bring systematized knowledge to bear on their dealings with people individually, in families, in other group and collective associations, with communities, societies, and organizations with a view to helping in the resolution of problems which cause stress in social transaction.

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

Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence.
2. There are two programs leading to the Master of Social Work degree. The Advanced Standing Program, for students with an approved Bachelor's degree in social work, requires 42 credit hours of graduate study in social work, which may be completed in a minimum of two semesters and a full summer. 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 foundation courses. Specific foundation course requirements are determined on the basis of each student's previous coursework and/or tested knowledge.
3. Details about research, practicum, and other course requirements may be obtained from the School of Social Work.
4. See the School of Social Work Student Handbook for other requirements.

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

NOTE: Social Work students may transfer 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 an appropriate substitute for a requirement or elective.

Foundation Courses

800V Human Behavior and the Social Environment (4) A foundation course providing basic knowledge of the contributions of the biological, behavioral and social sciences to understanding of human functioning in transaction with social structure. Prereq: Graduate Social Work student or permission of instructor.

805V Social Welfare Policy, Services & Analysis (4) An examination of social policy development and the functioning of specific delivery systems together with beginning policy analysis embodying socio-economic, political, legal, and psychological contexts. Academic background in economics, political science, and U.S. history is highly recommended. Prereq: Graduate Social Work student or permission of instructor.

809V Research Methods in Social Work (2) Scientific inquiry, the general types and methods of research in social work, and the collection, analysis and presentation of social welfare data will be studied. The more commonly used statistical techniques will be reviewed. Research in social work will be assessed and utilization in social work practice will be explored. Prereq: Statistics, or permission of instructor.

810V Social Work Practice I (Generic) (2) This course is designed to serve as an introduction to the common core of concepts, skills, tasks and activities which are essential to the practice of social work and which serve as a foundation for further professional growth. Prereq: SW 800V prior to or concurrent with.

812V Social Work Practice II (Micro) (2) An introductory course for graduate social work students focusing on basic theory and principles of social work practice with individuals, families and small groups. Prereq: SW 800V, SW 810V.

814V Social Work Practice III (Macro) (2) This is an introductory course for graduate social work students which surveys basic theories and principles of social work practice with organizations, institutions and communities, and includes social action and planning, community development, community organization, administration, and program evaluation. Prereq: SW 800V, SW 810V plus 805V prior to or concurrent with.

816V Social Work Practicum I (3) This course will provide supervised individualized learning experiences in selected social welfare agencies, introducing a variety of social work practice roles; emphasizing developing relationships with client systems, the problem solving process, and differential use of interventive modalities to effect change. Prereq: Concurrent with or subsequent to SW 810V.

817V Social Work Practicum II (3) This course is designed to provide supervised individual learning experiences, in selected social welfare agencies. It is designed to introduce graduate stu-

dents to beginning micro and macro social work practice. Prereq: SW 816V, concurrent with or subsequent to SW 812V, 814V.

Micro Practice Courses

820V Micro Intervention I (3) To provide the student with knowledge of theories and techniques in various modalities which are used in working with individuals, families and small groups. Prereq: SW 817V or equivalent.

821V Micro Intervention II (3) To provide the student with knowledge of theories and practice techniques in various modalities used in working with individuals, families and small groups with emphasis on particular settings such as rural mental health clinics, schools, and family service agencies. Prereq: SW 820V or permission of instructor.

825V The Family as the Client (3) The family considered as a system of social work intervention. Several theories of family interaction are considered; alternative modalities of family treatment are assessed; interventive skills are developed. Prereq: SW 820V or permission.

826V Gestalt-Transactional Analysis (3) An intensive didactic and experiential course designed to give students in-depth knowledge and practice skills in the combined use of transactional analysis (TA) and Gestalt therapy. Prereq: SW 820V or permission.

827V Human Sexuality in Social Work Practice (3) The course provides an intensive review of current theory and research in human sexuality. It emphasizes development of understanding and skills necessary for providing sex education for various client groups and counseling for sex-related problems. Prereq: SW 820 or permission of instructor.

828V Social Work Practice in Marriage, Divorce and Remarriage Adjustment (3) This is an advanced practice course designed to prepare students to work with couples and families experiencing problems in marital, divorce, or remarriage adjustment. Prereq: For social work students, SW 820; for others, professional practice course equivalent to SW 820, to be determined by course instructor.

849V Clinical Seminar in Mental Health (3) This course utilizes a seminar format to explore and discuss various aspects of clinical practice in a mental health setting. The seminars include focus on theoretical foundations of assessment treatment, application of mental health practice skills. Prereq: Bachelor's degree and experience in clinical setting(s); SW 820V or permission.

Practicum Courses

840V Advanced Social Work Practicum I (3-4) To provide individualized professional experience in micro or macro social work practice.

Prereq: SW 817V or equivalents, 820V prior to or concurrent with, or either 850V/852V/854V prior to or concurrent with.

841V Advanced Social Work Practicum II (3-4) To provide individualized professional experience in micro or macro social work practice, building upon opportunities provided and competency achieved in Advanced Practicum I. Prereq: SW 840V.

842V Advanced Social Work Practicum III (1-4) To provide a third advanced practice opportunity in a selected social welfare agency practical setting for refinement/addition of micro or macro social work practice skills. Prereq: SW 841V.

Macro Practice Courses

850V Social Development (3) An analysis of the social development model for effecting social and societal change. The concept of social development was introduced by the United Nations, has been adopted by many developing nations and is gaining increased utilization in developed nations including the United States. The course is offered for students working towards a Masters Degree in Social Work with an emphasis on macro social work practice. Prereq: Completion of social work foundation courses or permission of the School.

852V Social Work Administration (3) A study of the role of the social work administrator in the creation and administration of social service agencies of varying sizes. Prereq: SW 814V, SW 817V, or equivalents, or permission of instructor.

854V Social Work Planning (3) An advanced course in social planning, including administrative planning for social services, comprehensive planning for social welfare programs, and planning for social change. Prereq: SW 814V, SW 817V, or equivalents, or permission of instructor.

856V Supervision in Social Work (3) To provide the student with knowledge of theories and practice in techniques used in supervising paid or volunteer staff in social agencies, with emphasis on the leadership and helping functions of the supervisor in both educational and administrative roles. Prereq: Completion of accredited undergraduate social work major or one graduate year of social work courses, or permission.

858V Social Work, Social Action, Change & Political Advocacy (3) An advanced policy course in intervening and influencing social welfare policy at various points in the political system. Prereq: Students in advanced MSW program, SW 814V or equivalent or permission of instructor.

Social Problem/Condition Courses

418/818M Permanence for Children (3) The course is designed for the student to acquire an understanding of the issues involved in providing services to those persons who have been affected by dependency, child abuse and neglect; and to acquire skills in working with children, biological parents, foster parents, adoptive parents, and other systems involved in the welfare of children. Fulfills either social problem/condition

or graduate micro practice elective requirements. Prereq: Admission to the School of Social Work with the following requirements, undergraduate 332 and 466, graduate 810 and 866; or with permission of the instructor.

460/860M Social Work in Mental Health (3) This course is an elective for the advanced student who is seeking substantial specialized knowledge of current social work practice in mental health and mental retardation. Prereq: Senior social work majors, graduate social work students or permission of instructor.

462/862M Social Welfare and Institutional Racism (3) An examination of racism in social institutions, including social welfare, with particular attention to the implications for social work practice and the social work practitioner. To increase the student's awareness of the impact of racism on the behavior of both racial minorities and whites. Prereq: Graduate standing.

463/863M Social Work in Health Care Programs (3) A critical review of social work practice in health care programs; as it was, its current status, emerging roles, plans for an ideal situation. The design of the course provides for learning in both micro and macro aspects of health care delivery. The students will have an opportunity to examine and experience several aspects of health care delivery and the social worker's role in it. Students will also be exposed to the various resources involved in the provision of health care and some of the administrative mechanisms that are currently utilized by these systems. Prereq: SW 810 or permission of the instructor.

466/866M Social Work in Child Welfare (3) The course is designed for the student to acquire an understanding of the primary child welfare programs and services designed to strengthen family living. The three primary types of child welfare services covered are: (1) supportive services; (2) supplemental services; and (3) substitutive services. Prereq: Graduate standing.

867V The Human Ecology of Child Abuse and Neglect: An Analysis of Research and Intervention (3) This course will provide a review of existing literature on the meaning, origins, and consequences of child abuse and neglect. It will acquaint the student with significant approaches to prevention and intervention and emphasize research issues in child abuse and neglect. Prereq: SW 809V or equivalent, statistics, or permission of instructor.

868M Social Work with Developmentally Delayed Children and Their Families (3) The course content will include theory, practice and social policy issues relevant to the social work practitioner with an interest in child welfare. The student will gain an understanding of normal child development and the way in which a special need such as a physical handicap, mental retardation or emotional disturbance affects normal child development needs. Special emphasis will be placed on gaining social work skills relevant to families with exceptional children. For social work students, the course meets the social problem/condition requirement. Prereq: SW 800 or permission of instructor.

469/869M Working with Minority Elderly

(3) This course is an interdisciplinary one, designed to provide the student with knowledge of the differing status, attitudes and experiences of the elderly within four major minority groups and to examine various service systems and practice models in terms of their relevance and effectiveness in meeting needs of the minority elderly (Same as Gerontology 869M). Prereq: Graduate standing.

870V Alcohol Abuse: Comprehensive Treatment Programs (3) An examination of problems and processes related to alcoholism which are common in a social work setting. Special emphasis is given to detection, intervention, referral, etiology, and treatment alternatives and resources.

872M Rural Social Work (3) This course offers the student theories and practice techniques in the area of rural social work, including methods for working with individuals, families, and groups as well as communities and rural agencies. There will also be an emphasis on rural mental health service delivery. Prereq: SW 810 or permission of instructor.

480/880M Social Work, Psychology, and the Law (3) An examination of some of the legal aspects of selected social welfare policy issues such as abortion, illegitimacy, alcoholism and drug addiction, creditor and debtor's rights, landlord and tenant relationships, housing law, right to treatment, status of the convicted individual, mental health commitment procedures. Prereq: SW 805 or permission of instructor.

487/887M Social Work with Minorities (3) The course will provide the student with general insight into working with minorities and specific knowledge of at least one minority group, including cultural, social and economic factors. Attention will be given to special practice techniques applicable to minority groups and variations from traditional practice. Alternative course outlines will deal with American Indians, Black Youth and Hispanics. The course meets the minority or social problem/condition requirement. The

course is intended for social work seniors and graduate students, each of whom is required to take at least one social work course emphasizing minority content. The course may be repeated with different course outlines. Prereq: Senior or graduate standing or permission of the instructor.

888M Topical Seminar in Social Work (2-4) Advanced topics and experiences in social work theory and practice. Specifics will be announced when the course is offered. The topics selected will be consistent with faculty expertise and student needs. This course may be repeated for up to nine hours credit. Prereq: Graduate standing.

Special Studies and Social Welfare Research Courses

890V Special Studies in Social Welfare (1-3) Special studies in a selected area of social welfare for deepening the student's knowledge in that particular area. Prereq: Permission.

892V Seminar in Utilization of Research in Social Work (3) Emphasis is placed on the utilization of research in social work practice. Prereq: SW 809V or equivalent, statistics or permission of instructor.

894V Evaluation of Social Programs (3) A study of the various issues and methodology of social program evaluation. Evaluation of agency organizational structure, program design and effectiveness, and social impact will be covered. Prereq: Graduate standing and permission of instructor.

896V Research Other Than Thesis (3) Students prepare a research proposal, carry out the proposed study and prepare a detailed report of the purpose, design, outcome and meaning of the study. Prereq: SW 892V and permission of instructor.

899 Master's Thesis (6) Under the supervision of the thesis instructor and the thesis committee, the student will complete a thesis research. Prereq: Graduate standing and permission of instructor.

SOCIOLOGY

Applicants for admission to the graduate program in sociology should present a minimum of 15 undergraduate semester hours in sociology including courses in statistics and research methods.

Students without these courses may be admitted provisionally but must remove the deficiency within the first year of graduate study. Students must also present scores from the general part only of the Graduate Record Examination.

Examinations: Both the M.A. and M.S. (see below) degree programs with majors in sociology require the incoming student to complete an examination covering basic concepts and theorists of the field. The examination is used in counseling the student in his degree program. In addition the student must demonstrate proficiency in sociology through successful completion of comprehensive examinations.

The M.A. degree should be sought by students preparing for college-level teaching and continued academic work; the M.S. degree as preparation for field or action application of sociology.

Master of Arts

Students must complete Sociology 801, 802, 803, and 804 with grades of B or better, and must pass a comprehensive examination in a special area. The special area comprehensive examination must be selected by students after consultation with their advisors. Examinations are given twice annually. Students are also required to complete at least 6 hours of thesis and a minimum of 12 additional graduate semester hours of coursework. Detailed explanations of graduate requirements should be secured through the Sociology Office.

Master of Science with a Major in Applied Sociology

Although similar to the M.A. degree, the M.S. degree diverges to emphasize applied work. Students must complete Sociology 801, 802, 803, and 804 with grades of B or better, and must pass a comprehensive examination in a special area. Students must also complete a minimum of 18 additional graduate semester hours. Courses in applied work are recommended. Students must satisfactorily complete 6 semester-hour equivalents of a supervised work practicum (approximately 200 hours), and write an acceptable report about the experience.

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

Anthropology

420/820M Urban Anthropology (3) The course is intended to examine the city from an anthropological point of view. Included will be an overview of its history and the processes by which cities are formed and grow as well as the internal structure and processes within the city. The course is intended to be comparative geographically and temporally. Topics covered will include urbanization and cities in both the so-called "third-world countries" as well as in the developed, industrialized ones. Graduate students will be required to do a substantive term paper on a topic mutually acceptable to both the instructor and the student. In addition to the written work, the student will also be required to make an oral presentation in class of the research done and the major findings. Prereq: Permission of the instructor.

421/821M Cultural Anthropology (3) Arts, economics, family, kinship, politics, religion, subsistence, technology, war and world view approached as parts of an integrated whole, a way of life in human society. Illustrations will be drawn from a number of societies, anthropological theories and methods of study. Prereq: Permission of the instructor.

422/822M North American Archaeology (3) American Indian culture history in North America, with emphasis on the peopling of the new world, origin and development of new world agriculture, development of middle American civilizations and their impact on core areas of village farming in the continental United States; introduction to archaeological investigation techniques, dating methods, and taxonomic concepts. Prereq: For 422, Anthropology 105 or 421. For 822M, permission of the instructor.

452/852M Psycholinguistics (3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory and development relate to the linguistic variables of sentence structure, meaning, and speech sounds. (Same as Psychology 852M and Communication 852M.) Prereq: Senior or graduate standing or permission of the instructor. Recommended: Anthr. 105. (Same as Psychology 452 and Comm. 452.)

492/892M Seminar in Anthropological Problems (3) The seminar will cover a specific topic which will be announced each time the course is offered. The students will work with the instructor on projects designed to increase the student's depth of knowledge in specific areas. 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 restraints, roles, self control. Analysis and measurement of behavior in the context of socially 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 ephemeral social action and institution formation are studied. The development of transitory groups and ideologies in new movements and organizations through opinion formation; case and comparative investigations of the origins and growth of collective movements are made and relevant social theories are applied. Prereq: For 402, 9 hours of sociology, including Sociology 101. For 802M, permission of the instructor.

410/810M The Community (3) A basic course in community sociology. Sociological theory and the techniques of empirical research are applied to published studies of communities in the United States and elsewhere. The comparative social scientific method is elaborated as it pertains to data derived from community investigation. Prereq: For 410, 9 hours of sociology including Sociology 101. For 810M, permission of the instructor.

411/811M Applied Social Gerontology (3) An introduction to social gerontology with a special emphasis upon the effects of aging on social institutions and social participation. Examines practice-oriented implications. Prereq: Permission of instructor.

412/812M Urban Geography (3) A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, and the comparative study of cities. (Same as Geography 412/812M.)

413/813M Sociology of Deviant Behavior (3) A theoretical analysis of the relation of deviant group behavior and subcultures to community standards of conventional behavior as expressed in law and norms. Prereq: For 413, 9 hours of sociology, including Sociology 101. For 813M, permission of the instructor.

414/814M Urban Sociology (3) Examines urban theoretical perspectives, urbanization processes, the diversity of metropolitan communities, urban stratification, metropolitan growth, urban neighborhoods, community power and urban policy and planning. Prereq: For 414, 9 hours of sociology, including Sociology 101 or

permission of the instructor. For 814M, permission of the instructor. (Same as Geography 414/814M.)

415/815M American Family Problems (3) (1) A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society. (2) An analysis of failures of function and attendant problems in a variety of American families: Parent-youth tensions, problems of sexual adjustment, role conflict, multiproblem families, desertion, divorce, others. Prereq: For 415, 3 hours of sociology; for 815M, permission of the instructor.

441/841M Advanced Qualitative Methods (3) This course familiarizes students with contemporary qualitative methodologies and techniques by which the social sciences explore social and cultural relations in natural settings. Students will conduct individual and/or group field projects. Prereq: Permission of the instructor.

442/842M Advanced Quantitative Methods This course provides an advanced consideration of methodologies and techniques utilized in the generation and management of quantitative social science data. Students will gain first-hand involvement in the process of instrument construction and evaluation, building computer files, and index/scale construction and evaluation. Prereq: Permission of the instructor.

453/853M Seminar in Cross-Cultural Communication (3) This seminar will be directed towards understanding the components of cultural and subcultural misinterpretations, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations. Prereq: For 453, junior standing and permission of the instructor. For 853M, permission of the instructor. (Same as Comm. 453/853M.)

462/862M Sociology of Formal Organizations (3) Examines organizational theory and research. Analyzes organizational problems such as goals and effectiveness; authority, leadership and control; professionals in organizations; communications; clients; organizational change; and organizations and their environments. Comparative analysis of many types of organizations such as business, industry, schools, prisons, and hospitals with special attention given to human-service organizations. Prereq: Permission of the instructor.

475/875M Social Change (3) A discussion of theories and the basic models of change. Case and comparative examples from contemporary and historical change. Emphasis is placed on understanding causes and effects and larger trends current in American society and institutions. Prereq: For 475, Sociology 101 and junior standing or higher; for 875M, permission of instructor.

883M Sociology of Mental Illness (3) The sociological perspective on mental illness is contrasted with other perspectives. The course covers the conceptualization of mental illness, epidemiology and etiology, the role of the family "careers" of mental illness, the mental hospital, the patient-therapist relationship; mental health professionals, community health, and legal issues.

Prereq: Permission of the instructor.

485/885M Sociology of Religion (3) Analysis of religious behaviors from a sociological and social-psychological perspective, and utilizing both theoretical and empirical materials. The class is designed as an introductory approach to the sociology of religion, and the first in a two-step sequence, undergraduate and graduate. Prereq: For 485, Sociology 101 or permission of the instructor. For 885M, permission of the instructor.

499/899M Independent Study (1-3) Guided reading in special topics under the supervision of a faculty member. Prereq: For 499, senior standing and permission of the instructor. For 899M, permission of the instructor.

801V General Seminar in Sociology (3) This seminar, required of departmental graduate students, gives a basic orientation to the profession, its leading figures, publications, organizations, and university departments. It emphasizes critical discussion of issues in the discipline and selected substantive problems of sociology. Prereq: Graduate standing and permission of instructor.

805V Seminar in Social Psychology (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social psychology selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission of the instructor.

810V Seminar in Applications of Sociology (3-6) Sociological theory and method applied to a practical problem of relevance to general social issues. As seminar topics change, this course numbers may be repeated in a student's program without implying duplication. Prereq: Permission.

811V Social Problems of the Disadvantaged (3) A survey of the social problems existing in disadvantaged communities. The effects upon individuals of such settings. The subculture of poverty. Prereq: Graduate standing and permission of the instructor.

812V Seminar in Social Gerontology (3) A topical seminar focusing on the sociology of aging. Students are encouraged to develop proposals for research, programs, or social policy. Focus is upon generational differences and age changes throughout the adult life. Prereq: Permission of instructor.

850V Seminar in Research Methods (3-6) A complete research project carried out under the supervision of an instructor particularly qualified in the area of concern. Students participate in the background work, question formulation, selection of (or construction of) test instruments, data gathering by methods such as interviewing and participant observation, and analysis. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

855V Seminar in the Sociology of Religion (3-6) A seminar dealing with religion as a social and cultural phenomenon. The study theme

will vary from time to time in keeping with the special interests of the instructor. As seminar topics vary, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

860V Seminar in Social Organization (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social organization selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

865V Seminar in Occupations & Professions (3) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to the sociology of occupations and professions. Questions relating to theory, research, and practical application are considered. Prereq: Graduate and permission of instructor.

870V Seminar in Sociological Theory (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociological theory selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

871V Population Seminar (3) The significance of differences from place to place in the number, kind and qualities of human inhabitants and changes through time. Prereq: Graduate standing and permission of instructor. (Same as Geography 871V.)

880V Independent Study in Topics on Urbanism (1-3) Graduate student research on an individual basis under faculty supervision in

topics pertaining to urbanism. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work on one of the social sciences. (Also listed under economics and geography.)

883/884V Interdisciplinary Seminar on the Urban Community (3-6) An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put on broad interrelated focus. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, geography, political science, and urban studies.)

885V Seminar in Urban Economics (3-6) An examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under economics, political science and urban studies.)

895V/896V Practicum in Applied Sociology (Each 3) A practical work experience under supervision which provides opportunity for applying principles from the student's academic area of concentration. Prereq: Graduate sociology major for the M.S. degree.

899 Thesis (1-6)

940 Seminar in Small Group Communication (J. Brillhart) (3) Research and theory in the processes of small group communication and leadership research procedures; approaches to teaching discussion course. Prereq: Communication 801V or equivalent, or basic statistics, or permission of the instructor. (Same as Communication 940.)

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 major GPA of 3.0 or above
3. Completion of undergraduate deficiencies
4. An acceptable score on one of the following (must be completed before a second enrollment in classes):
 - a. Graduate Record Examination — minimum score of 840 on the Verbal and Quantitative sections
 - b. Graduate Record Examination — minimum score of 1260 on the Verbal, Quantitative and Advanced Test in Education
 - c. Miller Analogies Test — minimum raw score of 35

Comprehensive Examination

Students who seek the Master of Science degree must take a written Comprehensive Examination. This examination is taken at or near the completion of all 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 adviser will confer with them in planning for such courses. Students not pursuing a graduate degree will be admitted as unclassified graduate

students. Normally, no more than six hours taken as an unclassified student may be transferred into a graduate degree program.

Elementary Education

Master of Arts

The Master of Arts Degree in Elementary Education requires 30 hours of coursework. This program allows for individualization and provides an opportunity for indepth scholarly study in an area of interest. A master's thesis is required and is included within the 30 hours. Programs for the Master of Arts degree in Elementary Education will be determined in consultation with the major advisor.

Master of Science

Degree Program

- | | |
|---|--|
| I. Required Courses | 21 hours |
| TED 801V | Introduction to Research |
| TED 802V | History and Philosophy of Education |
| TED 803V | Seminar in Education: Elementary |
| TED 806V | Current Issues & Trends in Education |
| TED 836V | Diagnostic and Corrective Instruction |
| TED 843V | School Curriculum Planning |
| EDAD 846V | Administration and Supervision in Elementary Schools |
| II. Area of Concentration | 9-12 hours |
| Each student will include in his Plan of Study, an area of concentration in a special field which will provide depth in an area of his interest. All concentrations will be decided upon in conference with the student's departmental adviser. Possible choices include: Reading, Early Childhood Education, Gifted Education, Guidance, Improvement of Instruction, Learning Disabilities, Urban Education, Educational Administration, Educational Media, or an academic concentration, e.g., history, English, mathematics. | |
| III. Electives | 3-6 hours |

Reading

Master of Science

The Master of Science degree with a major in reading conforms to standards of the International Reading Association for the professional training of Reading Specialists. Upon successful completion of the program, the student is recommended for K-12 endorsement in reading in Nebraska.

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|---|--|
| I. Core Professional Courses | 18 hours |
| TED 911 | Principles and Practices in Elementary Reading |
| TED 912 | Teaching Reading in the Secondary School |
| TED 917 | Seminar in Organization and Administration of Reading Programs |
| or | |
| TED 918 | Seminar in Research in Reading |
| SPED 813V | Diagnostic and Remedial Instruction in Reading |
| SPED 814V | Measurement and Evaluation of Reading |
| SPED 815V | Clinical Practice in Reading |
| II. Related Professional Courses | 6 hours |
| Including Introduction to Research and selected work in such areas as foundation and general education, teacher education, special education, and psychology. | |
| III. Related Cognate Courses | 12 hours |
| Including selected work in such areas as guidance and counseling and/or the various subject areas mentioned under sections I and II. | |

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

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|--|---------------------------------|
| I. Required Courses | 15 hours |
| TED 801V | Introduction to Research |
| TED 803V | Seminar in Education: Secondary |
| TED 833V | Analysis of Teacher Behavior |
| TED 841V | Improvement of Instruction |
| TED 843V | School Curriculum Planning |
| II. TED 899V | Thesis |
| III. Related Professional/Academic Courses | 6 hours |
| | 9 hours |

Master of Science

I. Required Courses	15 hours
TED 801V Introduction to Research	
TED 803V Seminar in Education: Secondary	
TED 833V Analysis of Teacher Behavior	
TED 841V Improvement of Instruction	
TED 843V School Curriculum Planning	
II. Related Teacher Education Courses	6 hours
III. Related Professional/Academic Courses	15 hours

Urban Education

Master of Science

The Master of Science Program in Urban Education is designed for graduate students who are interested in exploring the contemporary issues confronting urban educational institutions. The range and depth of the inter-disciplinary course offerings in this program provide varied, challenging, and relevant experiences for both classroom teachers and community workers in allied professional fields. Students in this thirty-six hour program will increase their competence and expertise in functioning not only in the educational setting of the urban classroom, but also within the wider community milieu.

It is expected that students will be able to critically analyze the logic and structure of the educational institution, and inter-relationship of education and other primary socializing agencies.

Many of the courses offered in the program are designed specifically to facilitate an analysis of the ethnic, racial, and social characteristics of the contemporary urban scene.

It is also expected that students will develop an awareness of and the ability to handle the learning problems of urban youth. The program emphasizes a cultural awareness and appreciation of the varied life-styles within the urban setting, and specific skills to function effectively as an educator. In addition, attention will be focused on a critique of existing programs and the development of new strategies for change and the improvement of education.

I. Required Courses	18 hours
TED 801V Introduction to Research	
TED 802V History and Philosophy of Education	
TED 803V Seminar in Education: Urban	
TED 816V Education and Society	
TED 817V Alternative Strategies for Education	
TED 818V The Urban School	
II. Select 6 hours from any of the following:	
TED 808M Mental Health for Teachers	
TED 898M Growth and Learning Problems of the Disadvantaged	
TED 813V Field Research Techniques in Urban Education	
TED 815V Comparative Education	
TED 819V Conflict and Controversy in Urban Education	
TED 820V Anthropology and Urban Education	
III. Electives (to be determined by the student and advisor)	12 hours

Teacher Education

407/807M Education for the Uncertain Tomorrows (3) It is the intent of this course to offer educators the opportunity to become aware of basic principles in the field of future studies, the tools available to futurists, the projections for education in the future, future-oriented learning, what they can do to teach a course on future studies, and how they can integrate future into their personal and professional lives. Prereq: None.

408/808M Mental Health for Teachers (3) A study of the principles and practices conducive to good mental health in the classroom. Major emphasis is given to the teacher's role in providing an environment that will foster learning to relate to others and learning about oneself. Secondary emphasis is placed upon communication phenomena and the impact of institutions and authority structures upon mental health. Prereq: Junior or Senior standing.

421/821M Creating Bias Free Classrooms

(3) This course is designed to develop practicing teachers' awareness of and skill in meeting students' needs in the areas of human understanding, acceptance and value. Students will examine existing attitudes toward various minority groups such as racial, ethnic, age, sex, etc. School materials and attitudes will also be examined in determining the effect they have on students. Prereq: Admission to graduate study.

422/822M Growth and Learning Problems of Disadvantaged (3) An intensive study designed to help students develop a basic understanding of child growth and development and learning problems of the disadvantaged children and youth. Prereq: Senior standing.

424/824M Parent Involvement in Early Childhood Education (3) This is a course for classroom teachers and teachers-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, design, implementation, and evaluation of effective parent involvement components in early childhood settings. Prereq: Admission to Teacher Ed., CORE 150; ELED 225; or graduate standing.

427/827M Current Trends in Early Childhood Education (3) This course is intended for persons with an interest in the area of early childhood education and its current status at the local, national and international levels. Prereq: Admission to teacher education, Core 150, TED 225, 58 hours, required grade point average.

428/828M Patterns of Care in Early Childhood Education (3) Exploration of contemporary patterns of home and school care of the young child from birth to six years.

429/829M Learning Materials for Early Childhood Education (3) Designed to promote the development of sound criteria for use in selecting appropriate learning materials for children from three to eight years of age. (F,S)

447/847M Principles of Adult Education (3) An introduction to the study of adult education as a major development in contemporary America. The course surveys the major forms and problems of adult education and the foremost agencies providing programs. (F,Su)

448/848M Adult Group Leadership (3) A study of adult groups in modern society and the characteristics of effective leadership in all types of groups. (S,Su)

459/859M Microcomputers in the Library Media Program (3) This course is designed for library media specialists and directors to acquaint them with the applications of the microcomputer for library media centers. Computer terminology, software and hardware evaluation, instructional uses, and practical library management uses will be included in the total study of microcomputers. Prereq: Graduate standing.

465/865M Literature for Children and Youth (3) The course is designed as a graduate level course dealing with the utilization of literary materials for children from pre-school through grade six reading level. It is to provide the student an opportunity to explore, evaluate, and understand literature for children; to acquaint students with research in the field; and to provide an avenue for developing more meaningful and creative learning activities for children. Prereq: Graduate.

466/866M Literature for the Adolescent (3) This course is designed to assist library media specialists, English teachers, teachers of the humanities and other classroom teachers to gain information about adolescents, their reading and viewing habits and interests. Factors which affect reading, guidance in reading, and types of literature, regardless of format, will be examined. Prereq: Graduate standing.

471/871M Reference and Bibliography (3) This course will examine the reference function of libraries. It is designed to acquaint students with the basic tools of reference work and with the techniques of assisting library users in their pur-

suit of information. Prereq: Admission to Graduate College.

472/872M Advanced Reference and Subject Bibliography (3) This course will provide an introduction to computer-assisted reference work; combine evaluation of reference courses and services with various reference philosophies; identify and discuss reference materials in the sciences, humanities and social sciences; and describe the process and flow of information through an information retrieval system. Prereq: Admission to Graduate College and TED 871, Reference and Bibliography.

474/874M Cataloging and Classification I (3) An introduction to the basic cataloging procedures prescribed by the American Library Association and the Library of Congress. The course also involves working with the Dewey Decimal Classification System, Sears List of Subject Headings, and MARC format used by OCLC. Prereq: Admission to the Graduate College.

475/875M Cataloging and Classification II (3) The course is designed to develop new cataloging skills including: nonprint materials; analytical cataloging; serial cataloging; and work with Library of Congress and MARC formats used on the OCLC system. Prereq: Graduate standing and TED 874M-Cataloging and Classification I.

476/876M Selection and Evaluation of Educational Media (3) This course is designed for persons interested in gaining information about learning resources for preschool through adolescent students particularly in a school environment. Prereq: Admission to Graduate College.

477/877M Production and Utilization of Educational Media (3) The purpose of this course is to introduce students to educational technology through a study of the history and theory of the field. It is intended to provide students with a background in the characteristics, selection, evaluation, production, and utilization of educational media. Prereq: Admission to Graduate College.

478/878M Instructional Television Program Planning and Production (3) Students will be introduced to the role of television as applied to instruction. Production training and practice, TV lessons and series planning, and viewing and evaluation of lessons will be included in addition to production of a major project of practical significance and application. Prereq: Graduate standing.

479/879M Photography as an Instructional Medium (3) Various photographic techniques will be studied to enhance the visual literacy skills of the students through the sorting and organization of visual representations into patterns and relationships of non-verbal expressions. This course is designed for media specialists and elementary and secondary teachers interested in utilizing photography as an instructional medium. Prereq: LS 487/887M.

480/880M Administration of the Instructional Materials Center (3) A course designed for students who wish to prepare themselves for the administration of an educational media pro-

gram within an elementary and/or secondary school. Also EDAD 888M.

481/881M Principles and Philosophy of Vocational Education (3) A study of the basic philosophy underlying vocational education and the principles and practices in the various fields. (F,Su)

485/885M Coordination Techniques in Vocational Education (3) Reviews responsibilities and techniques of coordination for the vocational teacher-coordinator, with special emphasis upon local administration of the part-time cooperative program and analysis of the laws and regulations governing this program. (S,Su)

800V Special Studies (1-3) A series of intensive courses especially for teachers in service scheduled as regular seminars, or workshops, according to purpose. Prereq: Graduate standing and departmental permission.

801V Introduction to Research (3) To acquaint the beginning graduate student with the nature and significance of research; to enable the student to read, evaluate and apply research results and techniques; to give some understanding of the meaning and spirit of research; to give some experience in studying and preparing research reports.

802V History and Philosophy of Education (3) This course is designed to provide a critical perspective, both historical and philosophical, for understanding education in the United States. The course examines critically the evolution of educational thought and practice from the Colonial era to the present U.S.

804V Seminar in Supervision of Student Teachers (3) A seminar for cooperating and prospective cooperating teachers. Discussion of problems, trends, research and evaluation of student teachers.

808V Teaching Models in Affective Education (3) A study of models of teaching in the affective areas of education; a variety of models will be explored with special emphasis on planning and implementing activities in classroom situations. Prereq: EIED 436 or SED 458 or permission of instructor.

810V Research Project (1-3) Individual or group study and analysis of specific problems in schools. Typical problems will be concerned with curriculum and instruction in areas which have a broad scope of application rather than a specific level. Prereq: Graduate standing and departmental permission.

811V Introduction to Multicultural Education (1) This course introduces the concept of multicultural education, including the development of an awareness of cultural and ethnic groups. Participants will develop a multicultural perspective to the process of education. Prereq: Graduate.

812V Teaching Ethnic Studies (1) This course would be useful for both elementary and secondary teachers. It would be particularly appropriate for social studies and language arts teachers, but could have implications for any area of study. It fits in with multicultural internal and external pressures. The course would examine

briefly concepts and values, strategies, and even content of ethnic studies, both at the national and local level. The text might include both locally and nationally developed materials. One important outcome of such a course might be to help reduce myths of stereotypes about several ethnic groups represented in Nebraska. This course was developed in cooperation with the Human-Community Relations department of the Omaha Public Schools as part of the Omaha Teacher Corps Project's commitment to multicultural education. Prereq: Graduate Standing.

813V Field Research Techniques in Urban Education (3) The basic purpose of this course is to give students an opportunity to design and conduct field research within the urban educational milieu. Anthropological field research and naturalistic studies will be given emphasis. Students will be assisted in developing a field research design and will learn to gather and collate data. The course will culminate in the completion of an urban educational field study. Prereq: Graduate standing, TED 801, 832 or permission of instructor.

814V Urban Cultures and Teaching: The City as Teacher (3) The City as Teacher is a unique course designed specifically for educators in the Omaha metropolitan area. Teachers will be introduced to the Omaha metropolis as a microcosm of America. Utilizing urban systems theory in addition to numerous field trips they will have opportunities to explore the ethnic, cultural and religious institutions of the city and apply that knowledge by using a theoretical base. This field work will be followed by brainstorming sessions, skills seminars, guest speakers, and idea exchanges that will be the basis for improved teaching strategies and the development of new multicultural units of study for the urban classroom. Prereq: Graduate standing.

815V Comparative Education (3) An intensive study of the educational systems of selected nations found in Europe, Asia, Latin America, and Africa; particular emphasis is placed on a total study of the society selected and its resulting educational adaption and future educational directions.

816V Education and Society (3) A study of the problems that modern society is confronted with and the role(s) that education has in helping society meet its challenges. Emphasis will be placed on the interface between the educational institution and the other major arenas forming the social fabric. Attention will be given to the mechanism of change.

817V Alternative Strategies for Education (3) An intensive study of (A) The impact of present school organization and practice on the student and (B) Current alternative proposals for innovation. A brief overview of both the historical development and theoretical assumptions underpinning the traditional school program will serve as a foundation from which to analyze and evaluate the merit and utility of contemporary strategies. Stress will be placed on the wide social implications of the models discussed.

818V The Urban School (3) An analysis of the societal and institutional processes and problems

which have bearing upon the education of children in urban settings. A study of the urban school.

819V Conflict and Controversy in Urban Education (3) A course designed for students who wish to keep abreast of contemporary issues which confront the educational institution and the teaching profession in an urban milieu. Topics are modified annually to reflect current educational issues.

820V Anthropology and Urban Education (3) This course is designed to examine ways in which education, conceptualized as cultural transmission, contributes to and is influenced by continuities and changes in culture. An understanding and working knowledge of the culture concept is basic to the course. Interrelationships among ecological, social, and ideological forms in a subculture or society will be stressed. A limited anthropological field study is a requirement for this course. Prereq: TED 801V Introduction to Research.

830V Effective Teaching Practices (3) This course will focus on specific characteristics and behaviors of effective teachers. Course content will be derived from research on teaching and learning. Students will develop an instructional paradigm that contains a research base and design. Prereq: Admission to the Graduate College. Admission to a College of Education Program or permission.

833V Analysis of Teacher Behavior (3) Emphasis is placed upon current observational systems for analysis of teacher behavior in a classroom setting. Specific topics include in-depth instruction to inter-action analysis, micro-teaching, non-verbal behavior and simulation. Student proficiency in these observational systems using video-tape equipment is stressed.

834V Methods and Techniques for Identification and Teaching Listening Skills in the Classroom (3) The identification of listening problems and analysis of teaching methodology for improving listening skills in today's classroom. Practical methods of teaching listening as applied to specific learning problems in the areas of Elementary and Secondary Education will be emphasized. (A research paper presenting an in-depth analysis of deterrents to listening in the classroom with suggested solutions will be completed by each participant. Prereq: Admission to Graduate College, College of Education and one year teaching experience. TED 801 - Introduction to Research.

835V Models for Teaching (3) This course is designed to increase awareness and knowledge of teaching skills which can expand a teacher's repertoire. These additional skills and knowledge will allow a teacher to provide instruction to a broader range of student abilities. Prereq: None.

836V Diagnostic and Corrective Instruction (3) A study of methods of diagnosing children's difficulties in all subject areas of the educational program of the elementary school and corrective techniques for overcoming such problems.

838V Introduction to Instructional Theory Into Practice (3) This course is designed

for practicing teachers who are working to improve teaching skills in their classroom. This course will focus on utilizing the research and practices in the Madelyn Hunter teaching model. Prereq: Admission to Graduate College.

842V Trends and Teaching Strategies in Science Education (3) This course is designed for the graduate student whose study program emphasis is in the area of science education. Its focus will be K-12 and as such is meant to serve graduate students in both elementary and secondary education departments. The course will describe and analyze past and present trends in science education including curricula, teaching-learning strategies, the laboratory, and instructional material. Particular strategies that have merit and relevance concerning today's students and teachers will be treated in depth.

844V International Curriculum Practices (3) An analysis of curriculum practices and procedures that are currently utilized in selected countries around the world. Units of study will include Belgium, France, Germany, England, China, Africa, and Russia. The course activities will include correspondence with foreign students and educators as well as in-depth research on assigned areas. Prereq: Graduate standing.

846V Simulation/Gaming Laboratory for Teachers (3) This course is designed to familiarize teachers with simulation/games. It is designed to provide them with the ability to understand, use, and create simulation/games for the classroom. Prereq: Graduate Standing.

849V Teaching Adults to Read: A course in Literacy Training (3) This course is designed for elementary-secondary, ABE teachers, and other individuals interested in working with adult illiterate populations. The major emphasis in this course will be understanding the adult learner, developing methods and procedures appropriate for teaching adults to read and identifying and developing appropriate testing instruments. Prereq: TED 801 and one course in reading at either the graduate or undergraduate level.

850V Workshop: Newspaper in the Classroom (3) A course designed to assist teachers in planning to use the newspaper as an aid to classroom instruction. The course content includes the importance of the newspaper, methods for using the newspaper, activities suitable for classroom use, and a study of available curricular materials.

853V Automated Information Systems (3) To examine the historic, current, and future trends of automated information systems; to ascertain the flow of information through a retrieval system; to introduce vocabulary, methodology, theory and techniques utilized in operating automated systems; criteria for evaluation and selection of automated retrieval systems and services. Prereq: Graduate.

854V Using Microcomputers in the Educational Process (3) This course is designed to enable teachers, administrators, and other school personnel to understand what microcomputers are and how they can be applied to the educational process. Elements of computer terminology, programming, and applications will be consi-

dered along with philosophical aspects of man-machine relationships. The course is not intended for persons who have a background in computing or programming. Prereq: Graduate standing.

855V Enhancing Instruction with Microcomputers (3) This course examines the ways in which microcomputers can be used to improve curricular offerings and enhance instructional activities in elementary and secondary schools. Course enrollees will review their own instructional goals and practices and compare these with the capabilities/limitations of microcomputers. Current and projected software and hardware developments will be evaluated in relation to anticipated educational needs. Prereq: Graduate standing.

856V Developing Microcomputer Instructional Courseware (3) This course is designed for teachers and other educational personnel who wish to design instructional software for a microcomputer. The concepts of task analysis, motivation, computer graphics, student-computer interaction, evaluation and writing support materials are considered. Various authoring systems will also be examined. Prereq: TED 854V or equivalent or familiarity with the BASIC language.

858V 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 to the K-12 curriculum. The history, philosophy, and text/graphics operations of LOGO are considered with particular emphasis placed on implementing LOGO into the various areas of the elementary and secondary school curriculum. Prereq: Graduate standing. No previous computer knowledge or experience is required.

882V Introduction to Vocational Special Needs (3) Designed for secondary education personnel who desire knowledge of the history and current status of Vocational Special Needs. Students will gain a better understanding of handicapped and disadvantaged students. Prereq: Admission to Graduate College.

883V Improvement of Vocational Curriculum for the Special Needs Learner (3) Designed for secondary education personnel who desire competency in vocational curriculum modification to meet individual needs of students who are unable to succeed in a regular classroom setting. Prereq: TED 882V Introduction to Vocational Special Needs.

884V Career Exploration and Occupational Readiness for the Vocational Special Needs Learner (3) The course involves the processes of diagnosing students' needs in vocational education, communicating occupational information, and assisting students in the preparation for job entry-level employment. This course is intended for teachers, counselors, and educational support personnel. Prereq: TED 882V Introduction to Vocational Special Needs.

886V Vocational Curriculum Construction (3) A course designed for teachers, supervisors, coordinators, and administrators of vocational education. The course includes principles, needs, factors, and trends that should be consi-

dered in developing a vocational education curriculum.

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 EDAD 888V.) Prereq: Graduate standing.

889V Problems of Vocational Business Education (3) Designed for teachers of business education to develop a better understanding of the purposes, philosophy, current practices and trends in business education.

890V Introduction to the Education of the Gifted (3) The course involves the processes of defining and identifying characteristics of giftedness, analyzing associated problems, examining relevant research, and relating these to the overall education of gifted individuals. Prereq: Admission to Graduate College; one year teaching experience.

891V Guiding Gifted Students (3) A course designed to increase teacher awareness of the social and emotional needs of gifted students. Teachers will also develop skills that will assist gifted students in meeting these developmental challenges. Prereq: Admission to graduate study. (Same as Coun 891V.)

892V Teaching the Gifted and Talented (3) This course will focus upon the processes for developing a total sequential K-12 program for the gifted and talented, as well as the practical program implications for the individual classroom. Prereq: Admission to Graduate College and TED 890V Introduction to the Education of the Gifted or permission.

893V Individualization of Instruction (3) The course involves the study of the philosophy of individualization and the provisions needed in the areas of curriculum, learning factors/styles, student and teacher roles, and physical arrangements. Prereq: Admission to Graduate College.

894V Individual Factors/Styles that Affect Teaching and Learning (1) The course involves the study of the various factors/styles that affect teaching and learning; including the rationale, the various models, and the application to the classroom. This course is primarily intended for educators K-12 who are graduate students. Prereq: Admission to the Graduate College.

895V Perspectives on Education of the Gifted (1) The course involves the building of positive attitudes toward gifted students and the dispelling of myths about them, the orientation to the process of defining and identifying various types of gifted, and the recognition of their needs. This course is primarily intended for K-12 educators who are not facilitators or teachers of classes of identified gifted students but who are graduate students in gifted. Prereq: Admission to Graduate College.

896V Creativity (3) This course focuses upon defining and identifying the characteristics of the creatively gifted student, as well as studying educational models, program planning and teaching strategies. Prereq: Admission to Graduate College.

897V Applications of Learning Styles/Factors (2) This course involves the development of specific application techniques for providing for individual learning styles/factors in K-12 classrooms. Prereq: Admission to the UNO Graduate College. Admission to a College of Education Program or Permission. TED 894V — either previously completed or enrolled in conjunction with this course.

898V Practicum in Teaching the Gifted K-12 (3) This supervised practicum in gifted education is designed to give field experience to the teacher whereby he/she may learn principles and educational procedures for teaching gifted students. Prereq: Admission to Graduate College and permission of instructor.

899 Thesis (1-6) Independent research project required of all students taking Master 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 and is open to any student who has graduate standing. Major emphasis will be given to the administration, organization, evaluation, and methods and materials for teaching reading from Kindergarten through the sixth grades. 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, organization, evaluation, and methods and materials for the teaching of reading in each of the content subjects at the junior and senior high levels.

917 Seminar in Organization and Administration of Reading Programs (3) Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and who are professional workers who are charged with the total or partial responsibility for organizing and administering reading programs. Familiarity with the philosophy, organization, and major research related to different reading programs will be emphasized. Local and area reading authorities will conduct panels and lectures on topics chosen by the students. Prereq: One graduate reading course or permission of instructor.

918 Seminar in Research in Reading (3) A course for graduate and post-graduate students relating to in-depth studies of significant, recent research in reading with appropriate application for instructional procedures which may be undertaken. Each student will conduct self-initiated research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent), TED 801 (or equivalent), and permission.

919 Topical Seminar in Reading (3) Participation is limited to individuals who have completed the Master's Degree in Education and have completed at least nine semester graduate hours in reading, and who are professional workers in the field of reading education. The major intent of the course will be that of orienting and apprising

students of the latest techniques and curriculum changes in reading. Specifics will be described when the course is offered. The general topic selected will be announced each time the course is offered. The course may be repeated each time a different topic is covered, up to a maximum total of six credit hours. Prereq: Master's Degree in Education and have completed at least nine semester graduate hours in Reading.

936 Seminar in Applications of Non-Verbal Communication Theory (3) Theories and research on the development, facilitation and barriers of human non-verbal communication. Analysis of non-verbal interaction with specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication. (Cross listed as Psychology 936 and Comm. 955.) Prereq: Course in research methods or permission of instructor.

Elementary Education

820V Improvement of Instruction in Elementary Science (3) This course is designed for graduate students in education who wish to become better informed about the recently developed programs for elementary science; the methods, materials, philosophy, and emphasis in instruction, which are characteristic of these programs.

821V Improvement of Instruction in Elementary Mathematics (3) An examination of the philosophy, content, methods, and materials of modern mathematics programs for the elementary school. The needs and backgrounds of the students enrolled during the semester are given special consideration.

822V Improvement of Instruction in Social Studies (3) This course is intended for those professionals wishing to learn about the "New Social Studies." Curricula, instructional strategies and research appropriate to this topic will be explored.

823V Improvement of Instruction in Language Arts (3) This course includes a study of language and its use in the areas of speaking, writing, and listening in the elementary school curriculum. The research in these areas is studied and application is made to classroom practices and to the evaluation of curriculum materials. Prereq: Admission to Graduate College.

843V Introduction to Curriculum Planning-Elementary (3) A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate content and methods of curriculum reorganization.

Secondary/Post-Secondary Education

830V Emerging School Curriculum (3) Designed to provide the student with understanding of the nature and trends in secondary school curriculum development with the principles and practices utilized in curriculum planning. Strong emphasis is placed on curriculum construction.

837V Improvement of Instruction of Secondary School Foreign Language (3) This

is designed especially for the teacher who is interested in the improvement of instruction in foreign language. The course will encompass a whole range of opportunities for improvement of instruction of such languages, but will concentrate on current developments in audio-lingual-visual programs that have implications for the classroom teacher.

840V Improvement of Instruction of Secondary School English: Language (3) Exploration of the implications of recent research in language and linguistics for instructional improvement in the teaching of English.

841V Improvement of Instruction of Secondary School English: Literature (3) Exploration of the implications of recent research in the teaching of literature and rhetoric for instructional improvement in the secondary school English classroom.

845V Improvement of Instruction of Secondary School Social Studies (3) Designed especially for teachers who are interested in the improvement of instruction of the social studies. Will encompass the whole range of opportunities available for the improvement of social studies instruction; emphasis will be concentrated on current developments that have implications for

the classroom teacher.

850V Improvement of Instruction: Mathematics (3) This course is designed for those students who wish to extend their skills in employing instructional techniques for teaching mathematics. Emphasis is placed upon new developments such as computers and calculators and contemporary teaching strategies.

853V Seminar in Mathematics Education (3) A graduate seminar in K-12 mathematics education emphasizing recent curricular developments, curriculum planning and evaluation, research, mathematics supervision, and contemporary issues in mathematics education. Prereq: Graduate standing and permission of instructor.

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

875V Improvement of Instruction in Vocational Business Education (3) A course designed for teachers of business education to provide information, methods, and techniques relative to current practices and trends in vocational business education.

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 those pursuing programs in another discipline. The minor portion should be determined in consultation with a designated member of the Graduate Faculty from Home Economics. UNO courses may also be used to satisfy recertification.

Admission to the graduate program in the College of Home Economics requires presentation of the baccalaureate degree from an accredited institution. Departments within the college may determine specific course deficiencies.

Application for a graduate degree program in Home Economics is to be made to Graduate Studies, Lincoln Campus. In addition to this, an important step to initiate a graduate program is to consult with the chairman of the appropriate department in Lincoln. Staff in the Omaha Program will assist in making

such appointments. For a graduate degree in Home Economics, it will be necessary to take Home Economics courses on the Lincoln campus.

Interdepartmental area offers graduate work leading to the Master of Science or Master of Arts degree.

Students applying for study in the Interdepartmental Area must hold a bachelor's degree in Home Economics or its equivalent. The undergraduate work must have included the equivalent of 24 hours in Home Economics, distributed in at least three subject matter areas and 20 hours in Natural and Social Sciences including a minimum of 9 hours in the Natural and 6 hours in the Social Sciences.

Work leading to the master's degree in Home Economics may be completed under Option I, II, or III. (See Graduate Studies Bulletin-Lincoln) If Option I is selected the thesis research may be done in any one of the four cooperating departments. Under any option not more than one-half of the total program for the master's degree, including thesis research when applicable, may be completed in the major subject matter areas. These subject matter areas are: Education Family Resources; Human Nutrition and Food Service Management, Human Development and the Family, Textiles, Clothing and Design. At least 6 hours of the remaining work must be completed in one or more of the subject matter areas other than the major one. Additional supporting courses to complete the program may be carried in cooperating departments or in the departments outside of the College of Home Economics. However, if Option II is selected the required minor must be completed in a department other than those in the College of Home Economics, which can be an approved graduate program at UNO.

Separate programs leading to the Master's degree are also offered by the Department of Human Nutrition and Food Service Management, Department of Human Development and the Family and the Department of Textiles, Clothing and Design.

Human Nutrition and Food Service Management — Candidates for the Master of Science degree in Human Nutrition and Food Service Management must hold a Bachelor of Science degree or a Bachelor of Arts degree from an accredited college and have completed undergraduate preparation the equivalent of that required in the Basic General Education Core in Home Economics plus at least 10 hours exclusive of freshmen courses in Biochemistry, in Microbiology, and in Physiology for a total of at least 18 hours in Human Nutrition and Food Service Management, Chemistry and Biological Science.

Human Development and the Family — Candidates for the Master of Science degree in Human Development and the Family must hold a Bachelor of Science or a Bachelor of Arts degree from an accredited college and have completed undergraduate preparation the equivalent of that required in the Basic General Education Core in Home Economics plus a major of at least 18 hours of exclusive of freshmen courses in Human Development and the Family or the equivalent from Psychology, Educational Psychology or Sociology.

Textiles, Clothing and Design — Students may qualify for study in this area by presenting a baccalaureate degree from an accredited institution and by completing a minimum of 12 hour of undergraduate course work beyond the freshman level in Textiles, Clothing and Design or equivalent from a related area such as Art or Architecture. The graduate Area Committee will consider the qualifications for admission of applicants for study in Textiles, Clothing and Design and leading to a Master of Science or Master of Arts degree and will make recommendations to the Graduate College. Deficiencies as assessed on an individual basis may be removed concurrently with graduate studies.

Education and Family Resources — Education and Family Resources is included in the Interdepartmental area.

Philosophy and Religion

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

Physics

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

Art

Studio Art

400/800M Special Studies in Art Education (1-3) A series of intensive courses in the history and theory of art education designed specifically for elementary and secondary school art teachers. These courses are scheduled as special seminars or workshops according to purpose. Prereq: Graduate standing and departmental permission.

810/811M Technical Problems — Drawing (3) Advanced, individualized instruction in

various graphic media, as determined by the student and instructor. Prereq: Permission.

831M Advanced Sculpture (3) Advanced work in area of student's choice with facilities for oxyacetylene welding, arc welding, and wood working. Prereq: Art 331 and permission of instructor.

841M Advanced Painting (3) Instruction in various painting media permits each student the time to work and develop individually. Strong emphasis on knowledge of contemporary art. Prereq: Art 341 and permission of the instructor.

451/851M Advanced Techniques in Printmaking (3) Intaglio and lithography stressing color and technical proficiency in both media. Strong emphasis on image and content development. Prereq: Art 251 and 351 and permission of instructor for 851M.

461/861M Advanced Ceramics (3) Advanced work on the potter's wheel, glaze composition, loading and firing of gas and electric kilns. Prereq: Art 361, permission.

831V Graduate Sculpture (3) Advanced problems in sculptural media. Prereq: 831M.

841V Graduate Painting (3) More complex problems in the oil medium and related material. Prereq: 841M.

851V Special Processes in Printmaking (3) Advanced problems in printmaking stressing special processes in lithography, intaglio, and collograph. Strong emphasis on image and content development. Prereq: Art 451 and permission.

Black Studies

450/850M International African Community Field Research (3-6) Comparative political culture observations of selected black communities in the United States in relation to counterpart communities in Africa, the Caribbean and Latin America. Section w: East Africa; x: West Africa; y: Caribbean; z: Latin America. Prereq: Permission of the instructor or graduate advisor. (Same as Pol Sci 450/850m)

Chemistry

All courses cited as prerequisites for enrollment in Chemistry must be completed with a grade of "C" or better.

335/835J Physical Chemistry (3) A presentation of selected topics from the areas of classical thermodynamics and electrochemistry. Prereq: Chemistry 226, 226L or 227L, 240, 240L, Physics 212, Math 196.

335L/835JL Physical Chemistry Laboratory (1) Physical chemistry laboratory. Chemistry 335 to be taken concurrently. Prereq: Chemistry 226, 226L or 227L, 240, 240L, Physics 212, Math 196.

336/836J Physical Chemistry (3) A presentation of selected topics from the areas of quantum mechanics, spectroscopy, kinetics and statistical mechanics. Prereq: Chemistry 335, 335L.

336L/836JL Physical Chemistry Laboratory (1) Physical chemistry laboratory. Chemistry 336 to be taken concurrently. Prereq: Chemistry 335, 335L.

340/840J Instrumental Analysis (2) Lecture two hours and discussion one hour. Instrumental methods of quantitative analysis. Chemistry 340L to be taken concurrently. Prereq: Physical Chemistry. (Physical Chemistry may be taken concurrently.)

340L/840JL Instrumental Analysis Laboratory (2) Laboratory for Chemistry 340. Chemistry 340 to be taken concurrently. Prereq: Physical Chemistry. (Physical Chemistry may be taken concurrently.)

370/870J Radiochemistry (2) Lecture two hours and discussion one hour. A survey of the basic principles of radiochemistry and their application in the fields of biology, chemistry, and medicine. Chemistry 370L to be taken concurrently. Prereq: Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

370L/870JL Radiochemistry Laboratory (1) Introductory radiochemistry laboratory for Chemistry 370. Chemistry 370 to be taken concurrently. Prereq: Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

423/823M 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.)

424/824M Advanced Organic Chemistry (3) An advanced lecture course in organic chemical reactions. Prereq: Chemistry 226, and Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

450/850M Advanced Inorganic Chemistry (3) Theories of chemical bonding, the determination of chemical structures, and the application of modern chemical theory to classical and recent problems in inorganic chemistry. Prereq: Chemistry 250, Physical Chemistry. (Physical Chemistry may be taken concurrently.)

451/851M Advanced Inorganic Preparations (1-2) Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques. Prereq: Chemistry 450. (Chemistry 450M may be taken concurrently.)

465/865M Biochemistry (3) Chemistry and biochemistry of proteins, carbohydrates and lipids. Enzymes and energetics. Biological oxidation. Chemistry 465L to be taken concurrently. Prereq: Chemistry 226, 226L or 227L, and Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

465L/865ML Biochemistry Laboratory (1) Biochemistry laboratory for Chemistry 465. Chemistry 465 to be taken concurrently. Prereq: Chemistry 226, 226L or 227L, and Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

466/866M Biochemistry (3) Intermediary metabolism of carbohydrates, lipids, amino acids, and nucleotides. Structure of nucleic acids. Replication, transcription, and translation. Chemistry 466L to be taken concurrently. Prereq: Chemistry 465, 465L, and Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

466L/866ML Biochemistry Laboratory (1) Biochemistry laboratory for Chemistry 466. Chemistry 466 to be taken concurrently. Prereq: Chemistry 465, 465L, and Physical Chemistry or graduate standing. (Physical Chemistry may be taken concurrently.)

493/893M Special Topics in Chemistry (1-3) Selected special topics in chemistry. Prereq:

Chemistry 226, 240. Some topics will require more advanced prerequisites and will be accepted for advanced coursework in Chemistry.

499/899M Chemistry Problems (1-3) Independent student research. To receive a passing grade the student must present a seminar on the research project to the Chemistry faculty. Prereq: Permission of instructor.

499/899V Research in Chemistry (Arranged) Provides the student with an opportunity for experience in the solving of an actual research problem in the field of chemistry. To receive a passing grade the student must present a seminar on the research project to the Chemistry faculty. Prereq: Permission of instructor, and an undergraduate chemistry major (not less than 32 hours).

Engineering Mechanics

448/848 Advanced Mechanics of Materials (3) Stresses and strains at a point. Theories of failure. Thick-walled pressure vessels and spinning discs. Torsion of noncircular sections. Torsion of thin-walled sections, open, closed, and multicelled. Bending of unsymmetrical sections. Cross shear and shear center. Curved beams. Introduction to elastic energy methods. Prereq: EM 325, 373.

452/852 Experimental Stress Analysis I (3) Investigation of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, brittle lacquer, photoelasticity, and membrane analogy. Prereq: EM 325.

460/860 Vibration Theory and Applications (3) Free and forced vibrations of mechanical and structural systems with various types of damping. Vibration isolation. Harmonic and non-harmonic disturbances. Shock spectrums. Rayleigh's method for beams. Lagrange's equation. Design of vibration absorbers. Theory of vibration measuring instruments. Experimental methods and techniques. Prereq: EM 373; Math 235.

480/880 Digital Computer Methods in Engineering Analysis (3) Computers and programming. Roots of algebraic and transcendental equations. Simultaneous algebraic equations. Numerical integration and differentiation. Ordinary initial-value problems. Error analysis. Ordinary boundary value problems. Two-dimensional problems. Digital computer simulation by CSMP. Emphasis is placed on the application of numerical methods to the solution of engineering problems. Prereq: Math 235; EM 112.

Foreign Languages and Literature

French

401/801M Advanced Conversation and Composition (3) Further practice in oral fluency and writing skills along with grammar review and stylistics. Prereq: French 303 and 304 or 5 years of high school French.

415/815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels. Conducted in English with English translations.

Prereq: Permission of the instructor. (Same as German 415/815M and English 415/815M).

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

458/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language learning. Prereq: Junior standing or permission; Graduate standing.

486/886M Modern French Women Authors (3) A comparative treatment of works by women in contemporary and recent French literature; the feminine perspective on society, politics and human values as expressed in those works. Conducted in English with readings in French or English. (Same as English 486/886M) Prereq: Permission of instructor.

490/890M Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

496/896M Pro-Seminar (1-3) Detailed study of narrower phases of literature, language, or culture. Prereq: Permission of the instructor.

German

401/801M Advanced Conversation and Composition (3) Practice in conversation and written composition, grammar review, study of phonetics and basic reference works. Prereq: German 304 or permission.

410/810M Introduction to Germanic Folklore (3) An intensive familiarization of the student with the broad spectrum of folklore in modern and ancient societies of the indo-germanic continuum. Definition of folklore as an academic field and the delineation of the material studied by the student of folklore. Introduction to the folklorist's methodology in collecting, archiving, and research. To be taught in English. Prereq: For 410, at least three credit hours in any one of the following areas: Anthropology, art, music, literature, psychology, sociology, or history. For 810m, graduate standing and permission.

415/815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels. Conducted in English with English translations. Additional readings in German for German students. Prereq: Permission of the instructor. (Same as French 415/815m and English 415/815m).

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

(Same as French 417/817M and English 417/817M).

431/831M German Literature of The 19th Century (3) Survey of the literature of the nineteenth century from Romanticism to Naturalism. Prereq: For 431, German 303 or permission of the instructor. For 831m, German 303.

432/832M German Literature of The 20th Century (3) Survey of literature of the twentieth century from Expressionism to the literature after World War II. Prereq: For 432, German 303 or permission of the instructor. For 832m, German 303.

438/838M German Civilization From The 18th Century to The Present (3) Detailed analysis of German art, architecture, literature, music, and philosophy. The influence of the sciences and of technology upon modern German civilization and culture. Prereq: For 438, permission of the instructor. For 838m, graduate standing and permission of the instructor.

440/840M German Novelle (3) Survey of the German short story, its historical origin, characteristics. Prereq: 303 or permission of instructor.

444/844M German Drama (3) History of drama development, study of several of the more important dramas. Prereq: 303 or permission of instructor.

449/849M German Literature of The Seventeenth Century (3) The principal dramatic, epic and lyric works of 17th century German literature. Prereq: German 303 or permission.

450/850M German Literature of The Eighteenth Century (3) A study of representative authors of the Enlightenment, Storm and Stress, and German Classicism: Lessing, Herder, Schiller, and Goethe. Prereq: Permission of instructor.

458/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language teaching. Prereq: Junior standing or permission; graduate standing.

459/859M Bibliography and Methodology (1-2) An introduction to the basic bibliography and methodology of German literature and language. Prereq: Permission of instructor.

490/890M Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

496/896M Pro-Seminar (1-3) A detailed study of narrower phases of literature, language, or culture. Prereq: Permission of the instructor.

Spanish

401/801M Advanced Conversation and Composition (3) For graduate students who need a refresher course in conversation, grammar, and composition. Prereq: Graduate status.

410/810M Theater of The Golden Age (3) Foremost Spanish dramatists and plays of the

sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina, and Calderón de la Barca. Prereq: 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 such works as Lazarillo de Tormes, La Celestina, and Don Quixote. Prereq: For 411, 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. Prereq: 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. Prereq: Permission of the instructor. (Same as English 418/818M.)

420/820M Latin American Novel (3) Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors. Prereq: Spanish 322 or permission of the instructor.

424/824M Generation of 1898 (3) Examination of the ideology, philosophy, and literary techniques of Unamuno, Martínez Ruiz, Valle-inclán, Baroja, and Antonio Machado. Prereq: Spanish 318 or permission of the instructor.

435/835M Latin American Short Story (3) Representative stories of the nineteenth and twentieth centuries, from Romanticism to current production. Prereq: Spanish 321 and 322 or permission of the instructor.

455/855M Modern Drama of Spain (3) Ideologies, techniques, trends, and influences of the major Spanish dramatists of the nineteenth and twentieth centuries. Prereq: Spanish 318 or permission of the instructor.

456/856M Modern Novel of Spain (3) Analytical study of the representative Spanish novelists of the nineteenth and twentieth centuries from P. A. de Alarcón to Cela. Prereq: Spanish 318 or permission of the instructor.

458/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language teaching. Prereq: For 458, junior standing or permission of the instructor.

490/890M Independent Study (1-3) Guided independent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

496/896M Pro-Seminar (1-3) A detailed study of narrower phases of literature, language, or culture. Prereq: Permission of the instructor.

Home Economics

Food and Nutrition

453/853 Cultural Aspects of Diet (3) Cultural approach to development of the dietary patterns of various population groups. Factors involved in food habit alteration. Offered alternate years only. Prereq: FdNutr 241, 9 hours social science or permission of instructor. S

455/855 Nutrition Throughout the Life Cycle (3) Influence of normal physiological stress throughout the life span including pregnancy, lactation, growth and aging on nutritional requirements. Aspects of community nutrition. Prereq: 3 hours nutrition, 3 hours human development and family 6 hours natural science or permission of instructor. (F)

953 Ecology of Malnutrition (3) Fundamental principles underlying the current world malnutrition problems. Investigation of projected future problems and schemes for their prevention or solution. Prereq: FN 850 and 853, or permission of instructor.

Philosophy and Religion

305/805J The Philosophy of Space Exploration (3) This course deals mainly with the justification of space exploration in the face of conflicting needs. Topics to be studied include objections to the space program and responses to them, spinoff benefits, space industrialization, planetary and interstellar exploration, space colonies, search for life elsewhere, and other related theoretical issues. Prereq: Graduate standing or permission of instructor.

465/865M Philosophy of Mind (3) A discussion of various accounts of the nature of minds which focuses upon philosophical problems such as whether the mind is identical with the brain, the extent of similarities between human minds and computers, the nature of personal identity, and the relationship of mental activity to behavior.

890V Readings in Philosophy (3) An individually organized program of readings pertinent to one or more topics subordinate to the heading of Philosophy. To be carried out under the supervision of a member of the graduate faculty. May be repeated once for credit. Prereq: Graduate standing, permission of the instructor, and no incompletes outstanding.

Religion

415/815M Judaism in the Modern Age (3) A critical investigation of Judaism since the Enlightenment emphasizing historical, intellectual and religio-legal developments. Pivotal movements and religious events (e.g., the American and French Revolutions, Tsarist oppression, the Holocaust, and the establishment of the State of Israel) will be analyzed for their ongoing impact. Prereq: Nine hours in Religion or permission of instructor.

430/830M Existentialism and Religious Thought (3) A study of existentialism in its theis-

tic (e.g., Kierkegaard) and atheistic (e.g., Sartre) forms, and its impact on recent Jewish and Christian thought.

890V Readings in Religion (3) An individually organized program of readings pertinent to one or more topics subordinate to the heading of religion. To be carried out under the supervision of a member of the graduate faculty. May be repeated once for credit. Prereq: Graduate standing, permission of the instructor, and no incompletes.

Physics

301/801J Elements of Electronics (3) The background of theory, operation, and practice of electronic devices and circuits particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved. Prereq: Calculus and Physics 112 or 212.

302/802J Optics (3) The nature of light energy as disclosed through studies of geometrical optics, physical optics and quantum optics. Prereq: Math 196 and Physics 112 or 212.

305/805J The Philosophy of Space Exploration (3) This course deals mainly with the justification of space exploration in the face of conflicting needs. Topics to be studied include objections to the space program and responses to them, spinoff benefits, space industrialization, planetary and interstellar exploration, space colonies, search for life elsewhere, and other related theoretical issues. Prereq: Graduate standing or permission of instructor.

315/815J Modern Developments in Physics (1880-1950) (3) A modern physics course for science teachers at the secondary level. Concepts rather than mathematical rigor is stressed. Topics include spectroscopy, electronic structure, nuclear structure, basic quantum concepts of matter. Primarily for teachers who have not had an equivalent modern physics course within the past ten years.

816J Current Topics in Science (1-3) The subject matter of this course will generally not be presented in a standard physics course and may be of an interdisciplinary nature. The specific topics and prerequisites will be listed in the schedule. Prereq: Consent of instructor.

375/875J Electricity and Magnetism I (3) An advanced discussion of electrostatics and magnetostatics as well as a.c. theory. Prereq: Calculus, Physics 325, or permission.

376/876J Electricity and Magnetism II (3) A course in electrodynamics. Topics include Maxwell's equations and methods for their solution, boundary conditions, as well as energy, momentum, and transformations of the fields. Prereq: Physics 375.

385/885J Thermodynamics and Statistical Mechanics (3) The topics of thermodynamics include various equations of state, first and second laws of thermodynamics, thermodynamic potentials and their uses. In addition, an introduction to classical statistics, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena is given. Prereq: Calculus and Physics 212 or 216.

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 Schroedinger 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.

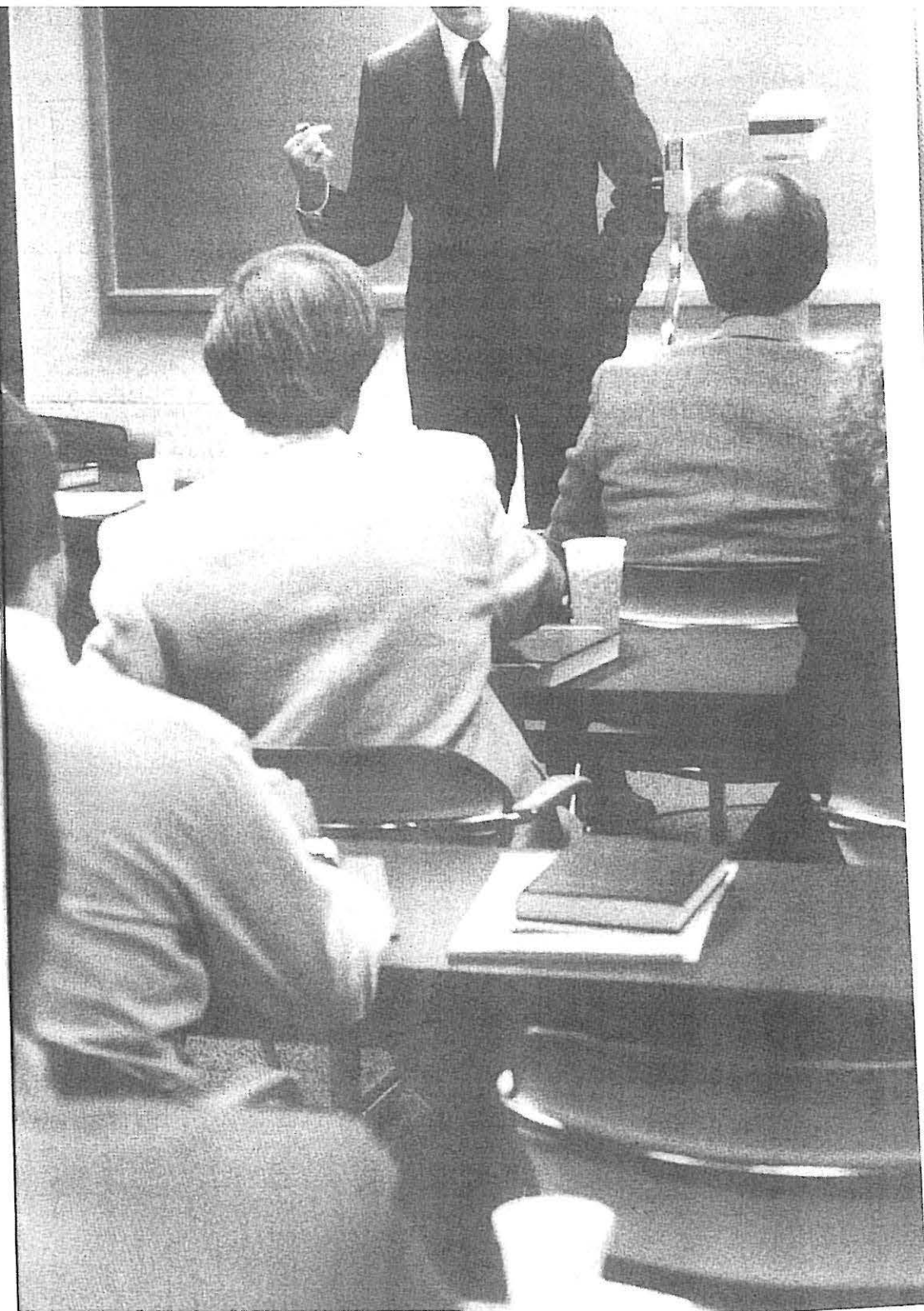
414/814M Nuclear Physics (3) Methodology and principles of nuclear science, nuclear structure, artificial and natural radioactivity, isotopes, tracer, techniques, radiation health physics, re-

actor 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 stellar 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 and/or library work in some field of energy. Prereq: General physics and permission of instructor. For 496: 495 and permission of instructor.



UNO GRADUATE FACULTY

PAUL B. ACKERSON *Teacher Education* Ed.D., Oklahoma State University, 1965; Professor

JAMES C. AKERS *Counseling and Special Education* Ed.D., Oklahoma State University, 1969; Associate Professor

LARRY ALBERTSON *Teacher Education* Ed.D., University of Georgia, 1973; Associate Professor

DAVID M. AMBROSE (GF) *Marketing* D.B.A., George Washington University, 1971; Professor

CLIFFORD ANDERBERG *Philosophy and Religion* Ph.D., University of Wisconsin-Madison, 1953; Professor

SUNNY ANDREWS *Social Work* Dr. P.H., Johns Hopkins University, 1973; Professor

ANN E. ANTLFINGER *Biology* Ph.D., University of Georgia, 1979; Assistant Professor

AARON ARMFIELD *Counseling and Special Education* Ed.D., University of Northern Colorado, 1964; Professor

CARL R. ASHBAUGH (GF) *Educational Administration Supervision*, Ph.D., Ohio State University, 1969; Professor

WALTER M. BACON, JR. *Political Science* Ph.D., University of Denver, 1974; Assistant Professor

BRUCE P. BAKER II *English* Ph.D., Texas Christian University, 1968; Professor

WILLIAM KENTON BALES *Music* D.M.A., North Texas State University, 1980; Assistant Professor

GEORGE W. BARGER *Sociology* Ph.D., University of Missouri-Columbia, 1964; Professor

NICHOLAS BARISS *Geography* Ph.D., Clark University, 1967; Professor

OTTO F. BAUER (GF) *Communication* Ph.D., Northwestern University, 1959; Professor

VIRGINIA L. BEAN *Accounting* Ph.D., University of Texas at Austin, 1965; Professor

GORDON M. BECKER (GF) *Psychology* Ph.D., University of Pittsburgh, 1955; Professor

JOSEPH V. BENAK *Civil Engineering* Ph.D., University of Illinois-Urbana, 1967; Professor

ROBERT W. BENECKE *Banking and Finance* D.B.A., University of Colorado-Boulder, 1966; Professor

KRIS E. BERG (GF) *Health, Physical Education and Recreation* Ed.D., University of Missouri-Columbia, 1973; Professor

ROGER M. BERG (GF) *Teacher Education* Ph.D., Northwestern University, 1972; Associate Professor

JOSEPH BERTINETTI *Counseling and Special Education* Ph.D., University of New Mexico, 1972; Associate Professor

JOHN V. BLACKWELL *Art* Ph.D., University of Iowa, 1957; Professor

RICHARD H. BLAKE (GF) *Counseling and Special Education* Ed.D., University of Missouri-Columbia, 1966; Professor

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