Graduate Academic Catalog (1974-1975)

University of Nebraska at Omaha

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GRADUATE STUDIES
University of Nebraska—Lincoln
University of Nebraska Medical Center
University of Nebraska at Omaha
1974-1975
TABLE OF CONTENTS

GENERAL INFORMATION
   Calendar .................................................. 4-7
   Departments Offering Graduate Instruction .................. 8
   Graduate Studies at UNO .................................... 9
   Accredited Standing ....................................... 9
   Degree Programs ........................................ 10
   University Regulations ................................... 10

PROCEDURES AND REGULATIONS
   Admission and Transcripts ................................ 11
   Matriculation Fee ........................................ 12
   Examinations for Graduate Students ........................ 12-13
   Classification of Admission .............................. 13
      Unconditional ........................................ 13
      Provisional ........................................... 13
      Non Degree ............................................ 13-14
   Registration Procedure .................................. 14
   Certification or Professional Growth ...................... 14
   Admission to Candidacy for Graduate Degree ............. 15
   Application for the Degree ................................ 15
   Final Comprehensive Examination ........................ 15
   Thesis .................................................. 16
      Oral Examination on Thesis ............................ 17
   Required Procedure for Graduate Students ............... 17
   Quality of Work ........................................ 18
   Policy on Class Attendance ................................ 18-19
   Study Load ............................................ 19
   Audit ................................................... 19
   Courses for Graduate Credit ................................ 19
   Residence Requirements .................................. 20
   Transfer of Credit ....................................... 20
   Withdrawal from the University .......................... 20
   Time Limit for All Master's Degrees ..................... 20

TUITION, FEES, DEPOSITS AND REFUNDS
   Tuition and Fees ........................................ 21
   Refund Schedule ........................................ 24
   Resident Students ....................................... 24

FINANCIAL AID FOR GRADUATE STUDENTS
   Graduate Assistantships ................................ 25
   Tuition Waivers for Graduate Students .................... 25
   Scholarships ............................................ 25
   Loans ................................................... 25

PROFESSIONAL ORGANIZATIONS .......................... 25-26

TABLE OF CONTENTS—Continued

ADMINISTRATION FOR GRADUATE STUDIES .................. 26
   Graduate Faculty ........................................ 26
   Graduate Council ........................................ 26
   Faculty Senate Research Committee ...................... 26
   Graduate Program Committees .......................... 26

CENTER FOR URBAN EDUCATION ............................. 27

COURSE DESCRIPTIONS .................................... 27

DEPARTMENTS ............................................. 28
   Art ...................................................... 28
   Biology ................................................ 28
   Business Administration ................................ 32
   Chemistry ............................................. 35
   Civil Engineering ...................................... 37
   Counseling and Guidance ................................ 41
   Dramatic Arts .......................................... 45
   Economics .............................................. 47
   Educational Administration and Supervision ............. 50
   Educational Foundations ................................ 55
   Elementary and Early Childhood Education ............... 58
   English ................................................ 59
   Foreign Languages ...................................... 62
   Geography and Geology ................................ 65
   Gerontology ............................................ 69
   Health, Physical Education and Recreation ............... 69
   History ................................................ 72
   Home Economics ....................................... 78
   Journalism .............................................. 80
   Mathematics ............................................ 80
   Physics ................................................ 84
   Political Science ....................................... 85
   Psychology ............................................. 89
   Public Administration ................................... 97
   Secondary/Post-Secondary Education ...................... 98
   Social Work ............................................ 102
   Sociology ............................................. 106
   Special Education ...................................... 110
   Speech .................................................. 120
   Urban Studies ......................................... 123

ADMINISTRATION ........................................ 125

UNO GRADUATE FACULTY ................................ 126

INDEX .................................................... 135

MAP ....................................................... 138
### OFFICIAL CALENDAR

#### SUMMER SESSIONS 1974

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 20-June 7</td>
<td>Spring Intersession.</td>
</tr>
<tr>
<td>May 20-July 12</td>
<td>Evening Session.</td>
</tr>
<tr>
<td>June 1</td>
<td>Last day for submitting credentials for admission to an undergraduate college for Summer Session.</td>
</tr>
<tr>
<td>June 5-6</td>
<td>Final Registration.</td>
</tr>
<tr>
<td>June 10-July 12</td>
<td>Change of Class schedules.</td>
</tr>
<tr>
<td>June 15</td>
<td>First Summer Session.</td>
</tr>
<tr>
<td>July 1</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Second Semester Session 1973-74.*</td>
</tr>
<tr>
<td>July 4-5</td>
<td>Holiday. University closed.</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day for filing applications for degrees to be conferred August 31, 1974.</td>
</tr>
<tr>
<td>July 15-Aug. 18</td>
<td>Second Summer Session.</td>
</tr>
<tr>
<td>July 15</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the First Semester 1974-75.*</td>
</tr>
<tr>
<td>August 1</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1974-75.</td>
</tr>
<tr>
<td>August 9</td>
<td>Status Report for all prospective graduating students due in Registrar's Office by 1200.</td>
</tr>
<tr>
<td>August 17</td>
<td>Summer Commencement.</td>
</tr>
<tr>
<td>August 21</td>
<td>Final grades due in Registrar's Office by 1600.</td>
</tr>
</tbody>
</table>

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 42.

#### ACADEMIC CALENDAR 1974-75

**FIRST SEMESTER 1974-75**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 15</td>
<td>Last day for submitting credentials for admission to Graduate Studies for First Semester 1974-75*</td>
</tr>
<tr>
<td>July 15-Aug. 31</td>
<td>Orientation.</td>
</tr>
<tr>
<td>Aug. 15</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the First Semester 1974-75.</td>
</tr>
<tr>
<td>Aug. 26</td>
<td>Beginning of academic year.</td>
</tr>
<tr>
<td>Aug. 28-29</td>
<td>Final Registration.</td>
</tr>
<tr>
<td>Aug. 30</td>
<td>Change of class schedules.</td>
</tr>
<tr>
<td>Sept. 2</td>
<td>Labor Day.</td>
</tr>
<tr>
<td>Sept. 3</td>
<td>First Semester begins at 0730 both day and evening classes.</td>
</tr>
<tr>
<td>Sept. 6</td>
<td>Last day up to 1600 for change of class schedules.</td>
</tr>
<tr>
<td>Oct. 11</td>
<td>Last day for filing applications for degrees to be conferred December.</td>
</tr>
<tr>
<td>Oct. 12</td>
<td>Homecoming football game.</td>
</tr>
<tr>
<td>Oct. 25</td>
<td>Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.</td>
</tr>
<tr>
<td>Oct. 26</td>
<td>Parents' Day.</td>
</tr>
<tr>
<td>Nov. 22</td>
<td>Last day a class may be dropped in order to receive a &quot;W&quot;. Last day a class may be changed to &quot;audit&quot;.</td>
</tr>
<tr>
<td>Nov. 27</td>
<td>Thanksgiving recess begins at 2140, offices closed.</td>
</tr>
<tr>
<td>Dec. 2</td>
<td>Classes resume at 0730.</td>
</tr>
<tr>
<td>Dec. 12</td>
<td>Last day of classes.</td>
</tr>
<tr>
<td>Dec. 13-20</td>
<td>Finals.</td>
</tr>
<tr>
<td>Dec. 21</td>
<td>Commencement.</td>
</tr>
<tr>
<td>Dec. 23</td>
<td>Grades due in Registrar's Office by 1200.</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER 1974-75**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 1</td>
<td>Holiday.</td>
</tr>
<tr>
<td>Jan. 8</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the Second Semester 1974-75.</td>
</tr>
</tbody>
</table>

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 42.
Jan. 15-16  Final Registration.
Jan. 17-24  Change of class schedules.
Jan. 20    Second Semester begins at 0730 both day and evening classes.
Jan. 24    Last day up to 1600 for a change of class schedules.
           (Adding a class to a schedule, changing a class from “audit” to a grade enrollment.)
March 14   Due: Mid term (8th week) report of grades under C for all undergraduates.
March 14   Last day for filing applications for degrees to be conferred in May.
March 22   Spring vacation begins at 1200.
March 24-25 Holiday. Offices closed.
March 31   Classes resume at 0730.
April 4    Last day a class may be dropped in order to receive a “W”. Last day a class may be changed to “audit”.
April 6    Honors Day at 1430.
           Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 1974-75.
May 1      Status report for all prospective graduating students due in Registrar’s Office at 1200.
May 3      Last day of classes.
May 9-16   Finals.
May 16     Last day for filing credentials for admission to Graduate Studies for the First Summer Session 1974-75.
May 17     Commencement.
May 20     Grades due in Registrar’s Office by 1200.
May 24     Alumni Achievement Day.
May 27     Memorial Day. University closed.

SUMMER SESSION 1975

May 19-July 11  Evening Session
June 2      Last day for submitting credentials for admission to an undergraduate college for first Summer Session.
June 4-5    Final Registration.
June 6-10   Change of class schedules.
June 9-July 11 First Summer Session.
June 16    Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1975.

*For separate deadline dates for submitting admissions credentials for admission into the Counseling and Guidance Department, see page 42.

June 30    Last day for submitting credentials for admission to an undergraduate college for the Second Summer Session 1975.
July 4     Holiday.
July 7     Last day for filing applications for degrees to be conferred August 31, 1975.
July 14-Aug. 30  Orientation.
July 14     Last day for submitting credentials for admission to Graduate Studies for the Fall Semester 1975-76.*
July 14-Aug. 15  Second Summer Session.
July 31     Last day for submitting credentials for admission to an undergraduate college for the Fall Semester 1975-76.
Aug. 7     Status report for all prospective graduating students due in Registrar’s Office by 1200.
Aug. 16    Summer Commencement.
Aug. 20    Final grades due in Registrar’s Office by 1600.

*For separate Deadline dates for submitting credentials for admission into the Counseling and Guidance Department, see page 42.

*The above dates are subject to change.
DEPARTMENTS OFFERING GRADUATE INSTRUCTION

Departments or areas which have been approved to offer courses for graduate credit and the degrees available in each department are as follows:

<table>
<thead>
<tr>
<th>DEPARTMENT OR AREA</th>
<th>Master Degree</th>
<th>Other Degrees Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art x</td>
<td>Bachelor of Fine Arts</td>
<td></td>
</tr>
<tr>
<td>Biology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Business Administration x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Chemistry x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Civil Engineering x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Counseling and Guidance</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Educational Administration and Supervision</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Educational Foundations</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Elementary and Early Childhood Education x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>English x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>French x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>German x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Spanish x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Geography x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Gerontology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Health, Physical Education and Recreation x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>History x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Home Economics x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Journalism x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Mathematics x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Physics x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Political Science x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Psychology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Educational Psychology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Industrial Psychology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>School Psychology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Public Administration x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Secondary/Post-Secondary Education x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Social Work x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Sociology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Applied Sociology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Special Education x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Reading x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Special Learning Disabilities x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Speech Pathology x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Teaching the Deaf x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Teaching the Emotionally Disturbed x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Teaching the Mentally Retarded x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Speech x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
<tr>
<td>Urban Studies x</td>
<td>Master of Science</td>
<td>MBA, M.S.</td>
</tr>
</tbody>
</table>

*Ph.D. in the specialties of industrial psychology and developmental psychobiology offered in conjunction with the Psychology Department, UN-L. Ph.D. in specialties of experimental child and school psychology offered in conjunction with the Educational Psychology and Measurements Department, UN-L.

GRADUATE STUDIES AT UNO

Elton S. Carter, Dean for Graduate Studies

The first Master's degree was awarded in 1919 by a special vote of the Board of Trustees of the “old” University of Omaha. In 1932, after the University became the Municipal University of Omaha, a Graduate Committee was organized to supervise graduate education. In 1942, the Graduate Committee was replaced by the Committee on Graduate Studies. In 1948, the Graduate Committee on Graduate Studies became the Graduate Council and the chairman became the Director of the Graduate Division. In 1960, the Board of Regents authorized a year of graduate study in education beyond the Master's degree. The Master of Business Administration was authorized in 1965 and the Master of Public Administration was authorized in 1970.

Recognizing the growing importance of graduate education, the term "Graduate Division" was authorized in 1949. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College.

Graduate studies provide the opportunity for more advanced education than the undergraduate work upon which all graduate programs are founded.

The Graduate College at the University of Omaha was established to provide an opportunity for advanced study and independent investigation in a limited number of fields of learning for qualified students:

1. To work toward these degrees: Master of Arts, Master of Science, Master of Business Administration, Master of Public Administration, Master of Social Work, Specialist in Education.
2. To earn graduate credit for the issuance or renewal of certificates for teachers, administrators and educational psychologists.
3. To provide for scholarly and professional advancement.

To enable the student to attain these objectives, Graduate Studies at UNO provide graduate courses, workshops, institutes, seminars, research and special problems courses, and the supervision of these or special projects. Thus the Graduate Faculty at UNO promotes 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.

ACREDITED STANDING

The University of Nebraska at Omaha is fully accredited by the North Central Association of College and Secondary Schools, and the National Council for the Accreditation of Teacher Education. It has programs approved by the American Chemical Society, the Council on Social Work Education, and the International Reading Association. It is a member of the National Commission on Accrediting (not an accrediting agency), the American Association of Colleges for Teacher Education, the Association of Urban Universities, the Association of American Colleges, the National University Extension Association, the American Association of University Women, the Council of Graduate Schools in the United States, the Midwest Conference on Graduate Study and Research, the Asso-
DEGREE PROGRAMS

The Master's degree or the Specialist in Education degree is conferred by the Board of Regents upon recommendation of the Graduate Faculty, and with the final approval of the faculty of the University of Nebraska at Omaha.

Master of Arts or Master of Science Degree

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 program (maximum of 6-hour thesis credit included) 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 Business Administration Degree

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 Public Administration Degree

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

Master of Social Work

The Master's degree in social work is a professional degree which trains practitioners in developing skills for responsible practice in a wide variety of social service roles and settings.

Specialist in Education Degree

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

UNIVERSITY REGULATIONS

The University and its various colleges, divisions, and departments reserve the right to change the regulations controlling admission, instruction, and graduation from the University or its various divisions.

Such regulations are operative whenever the University authorities deem necessary and apply not only to prospective students but also to those currently enrolled in the University.

The University also reserves the right to withdraw courses, to reassign instructors, and to change tuition and fees at any time.

At the graduate level, requirements may be made retroactive only for those students who do not maintain a continuity of enrollment. "Continuity" means that the student is enrolled in both semesters of every academic year or in at least one session every summer until all requirements for the degree have been satisfied.

PROCEDURES AND REGULATIONS

Admission and Transcripts

The student is advised to familiarize himself with the academic regulations of the University and Graduate Studies and the student is expected to assume full responsibility for knowing the particular requirements of his own academic program. The student is responsible for complying with all regulations of the University, Graduate Studies, and the departments of instruction, and for meeting all requirements for his degree. The student should consult with his advisor whenever he has any question concerning the requirements for his degree.

Applications for admission, together with transcripts, 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, and for graduate credit to be transferred to some other school.

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.

New students should correspond with, or go directly to, the Director of Admissions in order to apply for admission. Each new student will be required to file with the Director of Admissions:

1. An application for graduate study at the University of Nebraska at Omaha.
2. Two (2) official transcripts of all undergraduate (and graduate, if any) college work previously taken. Transcripts and all other materials submitted in support of an application become the permanent property of the University and will not be returned. (Graduates of the University of Nebraska at Omaha need not submit transcripts.)
3. Scores on the ATGSSB which should accompany the application for admission to the Master of Business Administration program.

NOTE: For consideration for the Fall, Spring, Evening Summer, First Summer or Second Summer term, above credentials must be on file by July 14, December 14, April 14, May 9 or June 14 respectively. Those wanting to be considered for admission to the program in counseling and guidance should see page 42 for separate deadline dates.

Scores of the Graduate Record Examination, Miller Analogy or Admission Test for Graduate Study in Business must be filed in the Graduate Office.

Admission to Graduate Study does not admit the student to candidacy for any graduate degree. (See "Admission to Candidacy for Graduate Degrees.") The University reserves the right to change the regulations included in this Bulletin with respect to admission to Graduate Study, the continuance of graduate study, and the granting of a degree.
MATRICULATION FEE
A matriculation fee of $10 is payable upon initial enrollment in the Graduate Studies. This fee is not refundable.

EXAMINATIONS FOR GRADUATE STUDENTS
The following two examinations, which require no special preparation or review, give valuable evidence of a student's qualifications for graduate work and are helpful in planning courses of graduate study. A nominal fee is charged for the examination.

All testing at UNO in the two categories below is under the supervision of the Director, Counseling and Testing Center. Registration deadlines and testing dates are available from the Counseling and Testing Center, Administration Building 213 or the Graduate Office, Adm. 203.

Graduate Record Examination
Graduate students are required to take the Graduate Record Examination (GRE) during their first semester of enrollment in Graduate Studies, unless they have taken it previously and have made the scores available to the Dean for Graduate Studies. The examination is not used to exclude admission at the Masters level.

A student who has not taken the GRE prior to his application for admission to Graduate Studies but who is judged from other evidence to be capable of graduate study, is assigned provisional status. A final determination of classification will be made after the examination scores have been studied.

A Graduate Studies applicant already holding a Master's degree in the field in which he wishes to pursue further study and not enrolling into a degree program is not required to take the Graduate Record Examination.

The Counseling and Guidance Department requires those wishing to pursue a degree program in counseling to take admissions tests in addition to the Graduate Record Examination (see page 41).

Admission Test for Graduate Study in Business
Applicants for admission to the Master of Business Administration program are required to take the Admission Test for Graduate Study in Business in lieu of the Graduate Record Examination. Scores on the ATGSB should accompany the application for admission to the Master of Business Administration program.

EXAMINATIONS FOR GRADUATE STUDENTS
The following two examinations, which require no special preparation or review, give valuable evidence of a student's qualifications for graduate work and are helpful in planning courses of graduate study. A nominal fee is charged for the examination.

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Admission Test for Graduate Study in Business
Applicants for admission to the Master of Business Administration program are required to take the Admission Test for Graduate Study in Business in lieu of the Graduate Record Examination. Scores on the ATGSB should accompany the application for admission to the Master of Business Administration program.

THE UNIVERSITY OF NEBRASKA AT OMAHA

The Test of English as a Foreign Language
The Test of English as a foreign language (TOEFL) scores must be on file in the Director of Admissions Office before an application for admission to Graduate Studies is mailed to a foreign student desiring to enroll for graduate work at UNO. This provision does not apply to those foreign students whose native language is English.

CLASSIFICATION OF ADMISSION

Unconditional
Unconditional admission to graduate study may be granted to a student who has a Bachelor's degree from a regionally accredited institution, who has earned at least a B average in the undergraduate work in his proposed graduate major and minor, and who presents at least 15 semester hours of undergraduate work that meet specific requirements of the departments in his graduate major and minor. A student from an institution which is not regionally accredited will be admitted on the same basis as he would be admitted by the state university or reporting institution in that state. In such cases, further work may be required, or suitable examinations, or in some cases the completion of a Bachelor's degree in an accredited institution. In addition to the specified transcript record, appropriate scores of the Graduate Record Examination or the Admission Test for Graduate Study in Business must be supplied to the Dean for Graduate Studies.

Provisional
Provisional admission may be granted to a student who has a Bachelor's degree from a regionally accredited institution but who has not completed all of the undergraduate prerequisite course requirements for admission to graduate study. This provisional status will continue until he has successfully demonstrated to the satisfaction of the Department and the Dean his ability to pursue graduate study.

Applicants to graduate study who have been graduated from unaccredited colleges may be admitted provisionally. Unconditional status may be attained upon completion of twelve semester hours of graduate courses with at least a B average.

A student may not apply for admission to candidacy for any degree until he has met the requirements of unconditional admission.

Non Degree
Some students who do not anticipate pursuing a degree program may be admitted to graduate study as non degree students. This classification includes:
1. Graduate students taking courses for teacher certification
2. Graduate students taking courses for professional growth
3. Graduate students taking courses for cultural advancement
4. Graduate students taking courses for transfer to another institution.

Credentials for admission include a completed application blank and two undergraduate transcripts. Credit hours accumulated in this category could be counted toward a degree only if (a) the transition from non-degree status is accomplished no later than the first opportunity to file candidacy for degree, and (b) the petition for change is accompanied by a departmental recommendation that the specified credit hours count toward the degree. For students desiring to change prior to completion of nine credit hours, the Request to Change Graduate Degree Program form should be used: for those having completed nine hours the Application for Admission to Candidacy form should be used.

Acceptance of Senior Credits: Seniors in this University who have obtained in advance the approval of the Dean for Graduate Studies may receive up to twelve hours credit for graduate courses taken in addition to the courses necessary to complete their undergraduate work, provided that such credits are earned within the twelve-month period prior to receipt of the baccalaureate. With permission of the department or departments offering the courses, students may be permitted to enroll in 800-level courses during either semester of their senior year. However, courses taken during the senior year may be carried for credit only if approved in advance by the Dean for Graduate Studies.

Seniors in this University needing not more than nine hours under­graduate credit to complete the bachelor's degree and wishing to register for graduate credit may be granted provisional admission to graduate study subject to receiving their baccalaureates within the twelve-month period immediately following such registration. They must file application for admission to graduate study and, if admitted, will register on graduate study registration forms.

Course work taken prior to receipt of the baccalaureate may not always be accepted for transfer to other institutions as graduate work.

**Admission to Teacher Education Programs**

Students who plan to work for the Master's degree with a major in one of the fields of education must hold a valid teaching certificate in the field in which he intends to pursue graduate study or be eligible for such a certificate at the undergraduate level before entering the program. For certification requirements, communicate with the Dean's Office in the College of Education.

**REGISTRATION PROCEDURE**

The student is to follow the usual procedure in registering for courses by filling out the proper class cards and other registration blanks and by paying fees at the Business Office. At each registration period the student must secure the signature of his major adviser (and of the Dean for Graduate Study if he is registering for more than twelve hours). Students must have been formally admitted to graduate study prior to their first registration.

**CERTIFICATION OR PROFESSIONAL GROWTH**

Students who wish to take courses for graduate credit to be used for teacher certification or professional growth must meet the same admission requirements as other graduate students. They must also make application for admission to graduate study.

**ADMISSION TO CANDIDACY FOR GRADUATE DEGREE**

Admission to graduate study does not admit the student to candidacy for any degree.

It is the student's responsibility to make application for candidacy for the degree as soon as he can qualify for admission to candidacy. The qualifications are: (1) the scores on the Graduate Record Examination (or the Admission Test for Graduate Study in Business, if applicable) must be on file in the Graduate Office; (2) nine hours of graduate credit must have been completed at this University; and (3) a grade average of "B," with no grade lower than "C." Each incomplete must be replaced by a grade before the student's qualification for admission to candidacy for the degree can be determined.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. Credits for courses which have been included to satisfy the requirements for one master's degree cannot be included to satisfy the requirements for any other additional master's degree unless (1) petitioned by the student, (2) recommended by the Graduate Program Committee responsible for the additional degree, and (3) approved by the Graduate Council.

Application forms should be filled out by the student—in consultation with his major and minor advisers—as soon as the student can qualify for admission to candidacy. Both the major and minor programs should be carefully and completely planned at this time and the application should be signed by both the major and minor advisers.

The application form and the plan of study should be filed with the major adviser who then secures the necessary signatures. The Graduate Office, after all signatures are secured, provides copies to the major adviser, the minor adviser and the student.

Plans of study should be planned with acceptable alternatives included. Once approved, any modification of a plan of study is permissible only upon recommendation of the major adviser if the major is concerned, the minor adviser if the minor is concerned, and the approval of the Dean for Graduate Studies.

Until a student has been admitted to candidacy for the degree, his graduate work is governed by the rules and regulations as stated in the most recent Graduate Bulletin, if he has not been in continuous enrollment.

**APPLICATION FOR THE DEGREE**

The candidate for the degree must file an application for degree in the Registrar's Office in the semester or session in which the degree is to be granted. (See Calendar for date.)

**FINAL COMPREHENSIVE EXAMINATION**

A final comprehensive examination is required of all candidates for the Master's degree near the conclusion of their graduate study. 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 department concerned. If written, it must be arranged at the convenience of the major adviser. 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.
For the degree Master of Business Administration, the final comprehensive examination will be administered near the end of the program of study.

If the course work has been of very high quality the minor adviser may suggest to the student's committee that the candidate be excused from the comprehensive examination covering the minor field. This does not prejudice the privilege of the minor professor giving a comprehensive, if he so desires. The minor comprehensive is 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 examination 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 written comprehensive examination. (Note: In most departments, students who plan degree program completion in August should register for the comprehensive examination in the preceding June.)

Results of comprehensive examinations must be submitted to the Graduate Office by the departmental chairman no later than twelve working days before the conferral of degrees.

THESIS

Students electing to pursue the Option I degree program described on page 10 are required to prepare a thesis under the direction of the major adviser supported by a committee. The thesis provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Up to six hours of credit is allowed for the thesis and the candidate must include the thesis as a course in his schedule during at least one semester. The thesis should be initiated at least eight months before the commencement in which the student plans to receive his degree.

Three typewritten copies of the thesis (two copies for the University Library and the student's personal copy), plus an additional copy if requested by the department, are required. The original must be a typewritten copy on permanent bond paper of 20-pound weight. Copies should be on paper of at least 16-pound weight. Except for the original, the required number of additional copies may be reproduced by the xerography method or any other comparable process, providing the process produces permanent copy and is approved by the chairman of the thesis committee. Either pica or elite type may be used in typing. It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses," a copy of which may be obtained in the Graduate Office. The thesis must be approved by the student's thesis committee and submitted to the Graduate Office in final form with the signatures of the committee members on the approval sheets of all copies no later than twelve working days prior to the conferral of the degree.

Thesis Manual: The responsibility for placing the thesis in final form rests with the student and his major adviser. All theses must be written in accordance with a standard thesis manual. The Graduate Faculty has approved an official manual for each department and the student will be advised by his major adviser of the standard form to be used.

The cost of binding three copies (see Fees) must be paid by the candidate at the time the thesis is submitted in final form to the Graduate Office. If the department conducting the thesis requires an additional copy, it is to be bound at the student's expense. The fees are payable in the Cashier's Office.

ORAL EXAMINATION ON THESIS

The composition of a committee to approve the thesis proposal and to conduct the oral examination over the thesis and thesis field is recommended by the department and submitted to the Dean for Graduate Studies for his approval and appointment. This committee shall consist of members of the major department and at least one graduate faculty member from another department of the University. If the thesis examination is to be combined with the oral comprehensive (noted above), one-half the time may be devoted to the thesis and one-half to the comprehensive courses taken by the candidate.

Final comprehensive oral examinations are arranged by the department, and it is the student's responsibility to deposit the proper number of copies of the corrected and approved thesis in the Graduate Office together with the signed approval sheets at least twelve working days prior to the conferral of the degree.

The scheduling of oral examinations during the summer sessions will be contingent upon the availability of appropriate members of the Graduate Faculty.

REQUIRED PROCEDURE FOR GRADUATE STUDENTS

1. File two official transcripts of undergraduate credits (and graduate, if any), an application for admission form (and the ATGSB scores if applicable) with the Director of Admissions. You will be notified by mail of your admission to graduate study.
2. Arrange to take the Graduate Record Examination in Room 213, Administration Building. If you have previously taken the examination, have the scores sent to the Graduate Office.
3. Arrange your class schedule with your advisor and have him sign your registration slip.
4. Pay a $10 matriculation fee at the time of your initial enrollment into graduate study.
5. Apply for admission to candidacy for the degree in accord with the procedure described above.
6. Apply for the degree in the Office of the Registrar during the semester or session in which the degree is to be conferred. (See Calendar for exact date.)
7. Inform your advisor or department chairman at the time of your final enrollment that you wish to sit for the comprehensive examination (provided your department is not one of those who administer the comprehensive examination earlier in the program).
8. Notify the Graduate Office at the time of your final enrollment of your intention to graduate at the end of the semester so that your graduate record may be compiled.
9. Remove incompletes with grades, pay all fees and fines (traffic, library, etc.), and satisfy any other obligation you might have to the University at least twelve working days before conferral of the degree.
10. If you are writing a thesis, make arrangements with your department for the oral examination to be given with ample time to have the corrected and approved thesis deposited in the Graduate Office at least twelve working days prior to conferral of the degree. The
scheduling of oral examinations during the summer sessions will be contingent upon the availability of appropriate members of the Graduate Faculty.

11. Order the cap and gown from the Book Store.

QUALITY OF WORK

A “B” average must be maintained in all work taken as part of the requirements for the degree. A final grade of “C” in each of two courses in either the major or minor area WILL REQUIRE ACTION ON THE PART OF THE COGNIZANT GRADUATE PROGRAM COMMITTEE before the student is allowed to count further work toward the degree. A grade of “C” in each of three courses will result in AUTOMATIC dismissal from the degree program unless the student has a “B” average or higher.

A grade of “D” or below in either the major or minor area is considered a failing grade and the student receiving such a grade will AUTOMATICALLY be dropped from the degree program. The student thus dropped must secure the approval of the COGNIZANT GRADUATE PROGRAM COMMITTEE or his adviser as the spokesman for the committee in order to take course work as a non-degree student and he may NOT be a candidate for the degree unless reinstated by the Graduate Council when recommended by the Dean for Graduate Studies.

The above quality of work standards also apply to non-degree students. A student, upon consent of his adviser, may repeat a course in which he has previously received the grade of C, D, or F. Both grades will appear on the transcript but only the second grade will be counted in determining the grade point average.

INC.—The grade “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 he is registered for credit. Incompletes should only be given if the student has already substantially completed the major requirements of the course.

Each instructor must judge each situation. The instructor must also indicate by a departmental record, with a copy to the student, how the Incomplete is to be removed, and if he is at the University at the time of the removal, supervise the makeup 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 Incomplete, the department chairman shall supervise the removal of the Incomplete and turn in the permanent grade for the student.

A student to receive credit in a course for which he has received a grade “I” must re-register and take the course again unless he removes the Incomplete within two years from the date he received the “I.” In the meantime the “I” is not computed in the student’s GPA.

All grades of “I” on courses which are part of the degree requirements must be removed at least twelve working days before conferment of the degree.

POLICY ON CLASS ATTENDANCE

Classes are conducted on the premise that regular attendance is desirable. The individual instructor has 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. If a student anticipates absence for an extended period, the student should promptly notify 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 advance notice to the students involved so that they may provide notice to other instructors.

Should there be cause on the part of individuals involved to feel that the reasons for absence were not considered with equity, a decision with punitive consequences may be appealed. The appeals procedure is the same as that provided for in each collegial unit for other academic, classroom-related items (grades, cheating, etc.). In cases of students submitting the justification for the appeal in writing to the department chairman and, if unsatisfactory, to the collegial dean. The final step in the appeals process rests with the student submitting a written statement requesting the consideration of the respective dean’s advisory council, indicating the specific nature of the appeal to be considered. The advisory council’s recommendation to the respective dean will be the last step for the student, and the dean’s decision will constitute the final determination for the University.

The routing of appeals shall be in the department and collegial unit offering the course in which the student is enrolled.

STUDY LOAD

An average study load for a full-time graduate student is twelve hours of course work. The minimum load required for classification as full-time graduate student is nine hours of course work. Graduate assistants are considered full-time students if they carry a minimum of six hours of course work. Students carrying less than twelve hours may obtain a regular students activities card by paying the full-time fee of $30.00.

AUDIT

A student wishing to audit a course must secure the permission of his adviser, must register for the course to audit, and must secure the approval of the instructor of the course whose prerogative it will be to determine privileges including examinations connected with the course. An audit study may not change to credit registration after the first week of a course. (A credit student 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.)

COURSES FOR GRADUATE CREDIT

Courses which are available for graduate credit are those which have been especially approved by the Graduate Faculty with syllabi on file in the Graduate Office.

Courses numbered 800V, 800U and 900 are open to graduate students only. Some courses numbered 800M are open to both seniors and graduates; the same is true of a selected few 800J numbered courses. It is expected as a rule that graduate students enrolled in these courses numbered 800J-800M will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.
RESIDENCE REQUIREMENTS
A minimum of 30 semester credit hours in residence (36 in case of the Master of Science in Education and the Master of Business Administration degrees), is required for granting of the Master's degree, except as provision is made for the transfer of credit. No credit will be allowed for correspondence work.

TRANSFER OF CREDIT
Students who have completed graduate courses at other approved graduate schools (including extension schools) may request the permission to transfer 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. Normally the total hours of transfer credit may not exceed the number stated.

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

In the Educational Specialist degree, six semester hours of work beyond the Master's level may count as transfer credit, upon recommendation by the major adviser and with the approval of the Dean for Graduate Studies.

Students who wish to take graduate courses at the University of Nebraska at Lincoln or at the Medical Center for transfer to UNO should secure the Inter campus Graduate Student Exchange form from the Graduate Office. Transfer of graduate credit from all schools in the University system will be accepted to the extent approved by the student's committee with at least one-half of the minimum degree requirements to be taken at the UNL or UNO campus, whichever is to grant the degree. Only grades of "B" or better may be transferred from other schools in the University System to apply toward degree requirements here.

WITHDRAWAL FROM THE UNIVERSITY
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, a graduate student is required to obtain the signatures of his adviser and the UNO Dean for Graduate Studies or his designee prior to submitting the withdrawal form to the Registrar's Office. Any refund of fees will be based on the University catalog, Graduate Bulletin, class schedule and Student Handbook, and as posted in the Cashier's Office. Failure to withdraw according to this procedure may cause forfeiture of refunds and inappropriate posting of grades.

TIME LIMIT FOR ALL MASTER'S DEGREES
The work required for a master's degree must be completed within six consecutive calendar years. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate Council for permission to take a special examination, or the current semester final examination in courses for which graduate credit has been recorded and is obsolete. A report of the results of the examination, which shall be prepared, given, and graded by the department, shall be filed in the Graduate Office. Unless a grade of B or higher is obtained in the examination, the student shall be required to take additional work, the amount and nature of which will be determined by the major adviser and the Dean for Graduate Studies. Time spent in the military service of the United States may be excepted in the application of this rule.

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 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 Student Financial Aids Office in Administration Room 183. Application for financial aid should be made at the earliest possible time.

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, or both.

Application Fee (Undergraduate):
The application fee is payable at the time the application for admission form is filed. This fee is non-refundable and does not apply toward tuition or any other fee. Residency for the purpose of assessing tuition is determined by the status of the applicant at the time the application for admission is filed.

Resident of Nebraska $10.00
Non-resident $23.00

Matriculation Fee (Graduate College):
Payable upon first-time enrollment in the Graduate College $10.00

Tuition:
Per Semester Credit Hour, Undergraduate or Graduate
Resident of Nebraska (see residency statute) $18.00
Non-Resident $48.25

Audit Fee:
The Audit (not for credit) fee is set at one-half of the Resident tuition rate. 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.

Orientation Fee (Undergraduate):
Payable upon enrollment by all new and transfer undergraduate students $7.00

University of Nebraska at Omaha
Special Instructional Fees:
Applied Music: Voice and all instruments except percussion and harp. (Fee may be waived by the Head of the Music Department for any full-time students who are music majors or minors.)

One semester credit hour ............... $55.00
Two semester credit hours ............. $75.00
Three semester credit hours .......... $85.00
Non-credit, 6 lessons ................ $45.00
Non-credit, 18 lessons ............... $65.00
TV Classroom (3 credit hours and materials) $75.00
Conference, non-credit, and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved.

University Program and Facilities Fee (UPFF)
Full-time students (12 credit hours or more) per semester .......... $30.00
Part-time students (less than 12 hours) per semester ............ $15.00
Summer Sessions (per session) .......... $15.00
Assessed to every student each semester, except that summer session students who complete registration for both sessions at the initial registration period will be assessed the fee only once.

The UPFF receipts are divided into two separate funds. One portion is designated for student activities and is distributed according to an annual budget developed by the Student Activity Budget Commission. The Chancellor recommends disbursements of this fund to the University Chancellor. After he approves their recommendations he submits them to the President of the University and the Board of Regents for review and adoption.

The second portion 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 Chancellor recommends to the President and the Board of Regents his plans for this portion.

The full-time fee of $30.00 also entitles the student to a regular student activities card covering athletics, publications and general student activities. Part-time students may obtain a regular student activities card by paying the full-time fee of $30.00.

Special Service Fees:
Cooperative Education (if taken for non-credit) ................. $50.00
Continuing Engineering Studies—Professional Studies—
Development Degree Program
Initial application ................................ $25.00
Attainment of 300 credit units (additional) .............. $22.00
Attainment of 500 credit units (additional) .............. $25.00
Attainment of 900 credit units (additional) .............. $23.00
Attainment of 1200 credit units (additional) .......... $23.00
Deferred Tuition Payments
(if approved by Student Financial Aid Office) ............ $5.00
Transcripts of Academic Record—per copy ................ $1.00
Thesis Binding—per copy ................................ $6.00
Cap and Gown Rental (to be arranged through the Bookstore) $3.00
Graduation Fee ........................................ $3.00
Degree in Absentia (payable in addition to graduation fee) $2.00

Bad Check—per check ...................... $3.00
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 bad check fee.

Teacher Placement Fees:
Registration Fee ........................................ $10.00
This fee is required before any further service is given. This fee prepares the placement file for the new registrant and updates the file for reregistration making the file readily available for office use or mailing to prospective employers. The registration fee is required of all graduates preparing for teacher certification.

Vacancy Bulletin Fee & Postage Cost
3rd class mailing ....................................... $5.00
1st class mailing ......................................... $12.50
The vacancy bulletin will not be mailed unless the registration fee is paid.

Credential Fee
Preparation of credentials ....................... $10.00
No credentials will be sent unless the registration fee and the credential fee has been paid.

Late Fees and Penalties:
Late Registration (day or evening classes) .......... $5.00
Late Examination (each course) ...................... $5.00
Late Payment of Tuition Billing ....................... $10.00
Reinstatement of Cancelled Registration ................. $10.00
Replacement of ID/Activity Card ....................... $1.00
Change of Class Schedule (per change) ............... $5.00

Deposits:
Key—(per key with authorization)—refundable .............. $1.00
Pre-registration ......................................... $50.00
The pre-registration deposit allows the student to register in advance for the next term, and will apply toward tuition for completed registration. The deposit for a term will be refunded in full provided application for refund is processed before the first day of the published date of on-campus registration for that term.

ROTC Uniform Deposit—Refundable ...................... $15.00

Testing Fees:
Credit by examination—per course .......... $25.00
American College Testing (ACT)—on scheduled dates ........ $6.50
ACT additional charge, if specially scheduled ............ $4.00
College Level Examination Program (CLEP)—at national rates $25.00
There will be no additional charge to record any academic credit granted from the results of the CLEP examinations. Anyone interested in testing for credit by examination should contact the Counseling and Testing Office, Room 213, Administration Building.

Counseling and Testing:
Generally, no fees are charged to UNO students for this service.
Refund Schedule:

Refunds are computed from the date application is received by the Registrar, NOT from date of withdrawal from classes. Refund slips issued by the Registrar and given to students are void and not redeemable, unless presented to the Cashier (Room Adm. 150) within 30 days after date of issue. See policy entitled "Withdrawal from Classes". Students paying tuition and fees on a deferred payment basis or under any other loan granted by the University, who withdrawing 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. 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.

Regular Semester

<table>
<thead>
<tr>
<th>Withdrawal</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Before first official day of the semester</td>
<td>100%</td>
</tr>
<tr>
<td>Before 3 weeks elapsed</td>
<td>75%</td>
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<tr>
<td>Before 5 weeks elapsed</td>
<td>50%</td>
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<tr>
<td>Before 10 weeks elapsed</td>
<td>20%</td>
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Summer Sessions (5 Week Sessions)

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<th>Withdrawal</th>
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<tbody>
<tr>
<td>Before first official day of each session</td>
<td>100%</td>
</tr>
<tr>
<td>During first three days</td>
<td>75%</td>
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<tr>
<td>During remainder of the first week</td>
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<tr>
<td>During second week</td>
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Credit Courses (8 Week Session)

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<td>After second week</td>
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Evening, Summer of Special Contract

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<tr>
<th>Withdrawal</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Before first official day of each session</td>
<td>100%</td>
</tr>
<tr>
<td>Before 3 weeks elapsed</td>
<td>75%</td>
</tr>
<tr>
<td>Before 5 weeks elapsed</td>
<td>50%</td>
</tr>
<tr>
<td>Before 8 weeks elapsed</td>
<td>20%</td>
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<tr>
<td>Before 10 weeks elapsed</td>
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Non-Credit and Special Courses (10 Weeks or More)

<table>
<thead>
<tr>
<th>Withdrawal</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Before classes start</td>
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</tr>
<tr>
<td>Before 2 weeks elapsed</td>
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</tr>
<tr>
<td>Before 4 weeks elapsed</td>
<td>50%</td>
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<tr>
<td>Before 6 weeks elapsed</td>
<td>20%</td>
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<tr>
<td>Before 8 weeks elapsed</td>
<td>0%</td>
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Less than 10 Weeks:

<table>
<thead>
<tr>
<th>Withdrawal</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Before classes start</td>
<td>100%</td>
</tr>
<tr>
<td>Before second class</td>
<td>50%</td>
</tr>
<tr>
<td>Before second class</td>
<td>0%</td>
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</tbody>
</table>

FINANCIAL AID FOR GRADUATE STUDENTS

GRADUATE ASSISTANTSHIPS

Available for qualified students who are enrolled in a graduate degree program and graduate assistantships in teaching, research or laboratory supervision. The assistant's assignment is designed to provide unexcelled opportunities for supervised educational experiences at the graduate level in conjunction with the degree program. The stipends range upward from $2520. Approximately twenty hours of work per week is required. The enrollment of students with assistantships will be limited to no more than twelve credit hours per semester unless the student has demonstrated extraordinary efficiency and the advisor recommends the abnormally high work load to the Dean for Graduate Studies for his approval.

Graduate assistants or interns who must earn money for self-support may be required to reduce correspondingly the number of hours for which they may register. Such adjustments shall be subject to the approval of the Dean for Graduate Studies.

Applications and their supporting credentials must be received on or before March 1. Address requests for information and application forms to the Chairman of the Department in which the assistantship is desired.

TUITION WAIVERS FOR GRADUATE STUDENTS

Several tuition waivers are available for qualified students who have been admitted to graduate study. Eligibility is based on academic qualifications and financial need.

Graduate assistantships and tuition waivers cannot be awarded simultaneously to anyone.

Information and application forms are available in the Graduate Office. Allow at least two months for processing applications.

SCHOLARSHIPS

Phi Delta Gamma, a national fraternity for women, offers two annual scholarships of $150 each, to women graduate students who have completed approximately one half of their graduate work with an excellent record; The Phi Delta Gamma Scholarship and the Nelle Boyer-Phi Delta Gamma Scholarship.

Applications and details concerning these scholarships may be obtained from the Dean for Graduate Studies, Room 201, Administration Building.

Applications should be in the Graduate Office by March 1 of each year.

LOANS

Qualified women graduate students are eligible for a Phi Delta Gamma loan on a limited basis.

To apply for loans from other sources as well, contact the Director of Financial Aid, Room 183, Administration Building.

ORGANIZATIONS

Phi Delta Gamma is a national sorority for graduate women in all fields. Membership is by invitation.

Phi Delta Kappa is a national fraternity for men who are graduate students in Education. Membership is by invitation.

Beta Gamma Sigma is a national honorary society for students in Business Administration. Membership is by invitation.
Psi Chi is a national honorary association for graduate students in Psychology. Membership is by invitation.

Omicron Delta Epsilon is a national honorary association for graduate students in Economics. Membership is by invitation.

ADMINISTRATION FOR GRADUATE STUDIES

GRADUATE FACULTY

The Graduate Faculty prescribes the qualifications of all professors who offer graduate work and approves all courses which may be taken for graduate credit. The Dean for Graduate Studies serves as Chairperson of the Graduate Faculty at UNO and of the UNO Graduate Council. Information about graduate programs, including qualifications of graduate faculty members and administration is available in the Graduate Office.

GRADUATE COUNCIL

The Graduate Council of the Graduate Faculty is composed of eleven faculty and three graduate student members. This group considers graduate policies, procedures and academic offerings and makes its recommendations to the Graduate Faculty. Information about the structure of the Council, functions of the committees, and names of the Graduate Faculty members who are currently serving on the Council is available in the Graduate Office.

FACULTY SENATE RESEARCH COMMITTEE

The objectives of this committee are: (1) to foster fruitful research and teaching excellence, (2) to recommend the allocation of the available funds for research toward these ends, and (3) to encourage solicitation of monies for research. Requests for various research activities will be solicited, evaluated, and recommended for approval or disapproval in keeping with the objectives of the Committee's area of responsibility and concern.

GRADUATE PROGRAM COMMITTEES

Each department (or area) offering a graduate degree has a Graduate Program Committee of at least three members. This committee and its chairperson are chosen annually by the graduate faculty members of the department. In its department the Graduate Program Committee has the responsibility for the planning of the graduate program, the general supervising of the candidates for graduate degrees and the examining of students by means of the qualifying examination and the final comprehensive examination when these examinations are not given by a student's thesis or field project supervisory committee.

Each new graduate student, in conference with the chairman of the Graduate Program Committee of his major department, shall select his major adviser. For the student who has a supervisory or advisory committee, the composition of the committee shall be recommended to the Dean for Graduate Studies by the chairman of the student's Graduate Program Committee after consultation with the student and his major adviser. At the master's level, committees of three members are usually sufficient. The chairperson should be a member of the Graduate Faculty and the student's adviser and thesis director. The representative from a department other than the major must be a member of the Graduate Faculty. In addition to at least three voting members, faculty members in the university system may be appointed to serve ex officio (without vote) as consultants (or to gain experiences as special representatives of the Dean for Graduate Studies). The Graduate Program Committees at UNO represent both the Graduate Faculty and the student's field of study. The word program denotes all kinds of academic requirements which must be satisfied by the graduate student in order to qualify for a particular degree (or in the case of a non-degree student—the requirements of graduate-level certification or recognized stages of professional development). Every degree candidate's plan of study must be designed to satisfy the requirements of a program which has been approved by the Graduate Faculty. Both major and minor requirements, together with quality-of-work standards, are included under programs; also included are transfer credits and those electives which are not major or minor courses.

Faculty members involved in graduate education, and in research (or any kind of further faculty development involving graduate students), should have ample opportunity to participate in decisions affecting these responsibilities. Provisions for appropriate participation by graduate students are equally important.

CENTER FOR URBAN EDUCATION

The Center for Urban Education is a practical, problem-oriented off-campus laboratory which is not housed in any of the individual departments or colleges but reports to the Vice-Chancellor for Academic Affairs. The Center has an advisory council consisting of several deans and public citizens. The Center focuses upon problems of low-income areas (both urban and rural) but does not offer separate graduate degree programs. However, there will be provided appropriate opportunities for graduate students from several disciplines (e.g., Sociology, Psychology, Urban Studies, Business Administration, Home Economics, Social Work, Counseling, Educational Administration, and Urban Education) to have, as part of their regular graduate programs practicum-type experiences, and to interact on an interdisciplinary basis. This type of university outreach into the low-income and poverty areas can be productive for the community and for students as well as faculty from all of the units of the University.

COURSE DESCRIPTIONS

Key to Symbols:

I—offered in the first semester of each year
II—offered in the second semester of each year
S—offered in the summer session

Courses numbered 800V, 800U and 800 are open to graduate students only. Some courses numbered 800M are open to both seniors and graduate students; the same is true of a selected few 800J numbered courses. It is expected as a rule that graduate students enrolled in those courses numbered 800J-800M will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.
ART (ART)

Course Descriptions

831M Advanced Sculpture
PREREQ: Art 231 and permission
Advanced work in area of student's choice, with facilities for oxyacetylene, arc welding, and general metal working.

841M Advanced Painting
PREREQ: Art 231 and permission
Practical instruction in oil painting and related medias. The course gives the student the time and environment to work and develop individually. A strong emphasis is placed on a complete knowledge of contemporary art.

851M Advanced Printmaking
PREREQ: Art 231 and permission
Intaglio or lithography processes stressing technical proficiency and personal development.

861M Advanced Ceramics
PREREQ: Art 231 and permission
Advanced problems in the techniques of ceramics.

Graduate Faculty Members:

Professors John V. Blackwell, Peter W. Hill (Chairman);
Associate Professors Sidney Buchanan, Thomas Majeski.
Assistant Professor Henry Serenco

Graduate art courses are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.

To complete the Master of Arts degree with a major in biology, the candidate must present 30 hours of graduate work in biology to include credit in thesis (a maximum of 6 hours), a minimum of 2 hours in seminar, and at least 22 hours of appropriate courses to be determined by the student and his faculty committee. Students may conduct thesis research in animal behavior, animal physiology, cellular physiology, bacteriology, botany, ecology, embryology, entomology, fresh water biology, histology, ichthyology, invertebrate zoology, mycology, ornithology, parasitology, plant anatomy, plant systematics, plant morphology, plant physiology, protozoology, vertebrate systematics, herpetology, vertebrate reproductive biology, and vertebrate anatomy.

The candidate must pass a final oral examination.

BIOLOGY (BIOL)

Graduate Faculty Members:

Professors Merle E. Brooks, Karl H. D. Busch, Steele R. Lunt, Paul V. Prior (Chairman);
Associate Professors William A. deGraw, Charles O. Ingham, Roger S. Sharpe, David M. Sutherland
Assistant Professors Carl E. Nordahl, Richard H. Stasiak, A. Thomas Weber

To enter a degree program with a major in biology the student must present approximately 24 semester hours of credit in the biological sciences including general botany, general zoology, and genetics plus adequate preparation in the supporting sciences of inorganic and organic chemistry, general physics, and mathematics. Students with inadequate backgrounds may be admitted provisionally. GRE (advanced and aptitude) is required.

Master of Arts

It is anticipated that initially every student will become a candidate for this degree. Only under appropriate circumstances will a student be allowed to become a candidate for the Master of Science degree.

Master of Science

A student may become a candidate for this degree only upon the recommendation of his faculty committee.

To complete the degree the candidate must present 36 hours of graduate work in biology to include at least 2 semesters of Biology 801V, 1 semester of Biology 802V, and other appropriate courses to be determined by the student and his faculty committee.

The candidate must pass a final written comprehensive examination.

Course Descriptions

831J Microtechnique
PREREQ: Two years of biological sciences
A course in the techniques of fixation, dehydration, staining, cleaning and mounting biological material in the manufacture of microscopic slides.

832J Ecology
PREREQ: Biology 145, 175
The study of the behavior of whole organisms and groups of organisms in relation to their total living and non-living environment.

843J Morphology of Lower Plants
PREREQ: Biology 145
A lecture and laboratory course which covers the morphology, and evolutionary trends of algae, fungi, and bryophytes.

851J Flora of the Great Plains
PREREQ: Biology 145
The classification, identification, and recognition of common vascular plants, including weeds, ornamentals, and indigenous plants found in the Great Plains.

861J Morphology of Higher Plants
PREREQ: Biology 145
A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends.

863J Plant Anatomy
PREREQ: Biology 145
A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants.

873J Fauna of the Great Plains
PREREQ: Biology 145, 175
A survey of the common animal groups found in the Great Plains, including their evolution, ecology, distribution and specific adaptations to the environments of the temperate North American grasslands.

8743 Histology
PREREQ: Biology 145, and a course in vertebrate anatomy, or permission of instructor
Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance.
872M Endocrinology
PREREQ: Organic Chemistry, Vertebrate Anatomy, and Physiology or permission of the instructor.
A survey of endocrine physiology stressing the regulatory and integrative roles of hormones, the control of hormone secretion, and mechanisms of hormone action.

874M Animal Physiology
PREREQ: Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of instructor.
A comprehensive study of animal function emphasizing mechanisms of regulation and control.

875M Vertebrate Zoology
PREREQ: Biology 175
A study of the general biology of the subphylum Vertebrata including the morphology, anatomy, physiology, and ecology of vertebrate representatives.

876M Herpetology
PREREQ: Biology 175
The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution, and identification with emphasis on North American groups.

888M Invertebrate Zoology
PREREQ: Biology 175
A field-oriented course emphasizing the taxonomy and natural history of the invertebrate animals.

892M Parasitology
PREREQ: Biology 173
The study of insects, their classification, morphology, physiology, behavior, life histories, ecology, and evolution.

894M Entomology
PREREQ: Biology 175
Taxonomy, morphology, physiology, life history, dissemination, and control of the parasitic protozoans, helminths, and arthropods.

901V Seminar in Biology
A study of current research in any of the divisions of biology. Graduate students in biology must complete this course twice for credit.

922V Problems in Biology
PREREQ: Sufficient work in biology and the ancillary sciences necessary to pursue adequately the area of investigation involved.
Research in various areas of biology.

925V Current Topics in Botany
PREREQ: Grad. standing in Biol. or Biol 864M, or permission.
Survey of recent literature in one or more of the following areas of Botany: Physiology, Morphology, Anatomy, Ecology, Taxonomy, Economic Botany, Genetics, Phycology.

931V Current Topics in Microbiology
PREREQ: Grad. standing in Biol., Biol 864M, or permission.
Survey of recent literature in one or more of the following areas of Microbiology: Morphology and Development, Physiology, Genetics, Taxonomy, Ecology, Medical Microbiology and Immunology, Virology, and Food and Industrial Microbiology.

935V Current Topics in Zoology
PREREQ: Graduate standing and permission.
Survey of recent literature in one or more of the following areas of Zoology: Taxonomy, Morphology, Anatomy, Ecology, Physiology, Behavior, Zoogeography, Genetics.

819V Environmental Biology
PREREQ: Graduate standing in Biology and/or permission of instructor.
A study of the recent advancements in environmental biology, concentrating on the areas of population dynamics, community interaction and ecosystem theory. Readings, discussions, laboratory, and a written report.
Special graduate courses are available to students to remove deficiencies in the foundation core. These courses include BA 811J, BA 812J, BA 813J, BA 814J, BA 815J, and BA 816J. The foundation courses cannot be used to meet the 36 semester hours required for the M.B.A. degree. The quality of work in the foundation core should be the same as for degree requirements. A "B" average must be maintained, a final grade of "C" in two courses will require action by the MBA committee before the student is permitted to re-enroll, and a grade of "C" in a third course or a grade of "D" or below in any course will result in automatic dismissal from the MBA program.

The Admission Test for Graduate Study in Business is required and scores should accompany application for admission.

To be admitted to the MBA program, applicants should have a minimum undergraduate grade point average of 2.5, and a minimum of 470 on the Admission Test for Graduate Study in Business.

Degree Requirements: The degree requires a minimum of 36 semester hours for completion. Of these, 27 must be in the following required courses:

- BA 800V Quantitative Analysis 3 hours
- BA 801V Business and Society 3 hours
- BA 802V Accounting for Management Control 3 hours
- BA 811V Accounting Theory 3 hours
- BA 830V The Environment of Management 3 hours
- BA 831V Human Behavior in Organization 3 hours
- BA 840V Marketing Policies 3 hours
- BA 850V Financial Management 3 hours
- Econ. 821V Micro-Economic Theory 3 hours
- Econ. 823V Macro-Economic Theory 3 hours

Emphasis in specific areas can be achieved by selection of nine hours of approved electives, three of which may be outside of business administration. Business Administration elective courses include the following:

- BA 802V Research Methods in Business 3 hours
- BA 803V Business Information Systems 3 hours
- BA 805V Business Conditions Analysis 3 hours
- BA 835V Seminar in Accounting 3 hours
- BA 835V Seminar in Management 3 hours
- BA 841V Professional Policies 3 hours
- BA 845V Seminar in Marketing 3 hours
- BA 851V Security Analysis 3 hours
- BA 852V Seminar in Investment Management 3 hours
- BA 855V Seminar in Finance 3 hours
- BA 859V Independent Research 3 hours

A thesis is not required for the degree. A written comprehensive final examination is required near the end of the program.

Course Descriptions

811J Survey of Accounting 3 hours
This course is for the graduate student who has not taken accounting principles at the undergraduate level. The uses of accounting for purposes of control and decisions by managers, shareowners, creditors, and others.

812J The Legal Environment of Business 3 hours
Examination of the business institution as it exists within a legal system shaped by societal elements.
813J Business Finance 3 hours  
PREREQ: ACC 201 and ACC 202; or BA 811J and Econ. 201 and Econ. 202; or Econ 600J
The process of financing business from the viewpoint of management in planning, directing, evaluating, and taking remedial action in providing for the financial needs of the business firm.

814J Survey of Management 3 hours  
PREREQ: Econ 201 and 202; or Econ. 600J
A comprehensive study of the management process with particular emphasis given to the production, human, and organizational problems of industrial operations.

815J Marketing Foundations 3 hours  
PREREQ: Econ 201 and Econ 202; or Econ. 600J. No previous marketing principles.
This course will provide the student with a sound understanding of marketing institutions, functions, economic role, and administration. It will prepare the student for advanced work in marketing policies and research.

816J Statistics for Business Decisions 3 hours  
PREREQ: DS 212 or College Algebra
Techniques of analysis and interpretation of quantitative business data; descriptive measures, statistical inference, correlation and time-series.

820V Quantitative Analysis 3 hours  
PREREQ: DS 213 or BA 816J
The study of quantitative techniques and models and their application in business decision making.

821V Accounting for Management Control 3 hours  
PREREQ: ACC 201 and ACC 202; or BA 811J
Emphasis on maximum utilization of accounting information by management. Not open to students having completed managerial accounting or 12 hours of accounting.

822V Accounting Theory 3 hours  
PREREQ: BA 820V or 12 hours of accounting

823V Seminar in Accounting 3 hours  
PREREQ: BA 820V or BA 821V
A study of problem areas which may be independent of or introduced in public, private, and governmental accounting.

824V The Environment of Management 3 hours  
PREREQ: MGT 349 or BA 814J
A classical and behavioral study of the organizational environment in which decision-making occurs to accomplish the economic and efficient operation of organized endeavor.

825V Human Behavior in Organization 3 hours  
PREREQ: BA 824 or BA 814J
An inter-disciplinary study concerned with the problems of combining and utilizing human resources to satisfy the objectives of management and workers.

826V Seminar in Management 3 hours  
PREREQ: BA 830V and BA 831V
A student participation course emphasizing current issues and problems in the areas of management theory and operation.

827V Marketing Policies 3 hours  
PREREQ: MKT 331 or BA 815J
A marketing management approach to the determination of policies employed in solving problems in marketing.

828V Promotional Policies 3 hours  
PREREQ: MKT 331 or BA 815J
Analysis of the methods and policies needed to develop and administer an effective promotional program.

829V Seminar in Marketing 3 hours  
PREREQ: BA 840V
Examination, selection, and critical analysis of contemporary marketing problems, trends, methods, and approaches for seminar discussion and written report.

830V Financial Management 3 hours  
PREREQ: FIN 325 or BA 813J
Examines the problems of managing the financial operations of an enterprise with emphasis on analysis and solution of long and short-term problems pertaining to policy decisions.

831V Security Analysis 3 hours  
PREREQ: FIN 325 or BA 813J
A study in the techniques of analysis of marketable securities. Statistical and financial ratio methods of analysis are examined as well as other bases for appraisal of values of securities.

832V Seminar in Investment Management 3 hours  
PREREQ: FIN 325 or BA 813J
The theory of investment management and its application in formulation of policies for different types of investors.

833V Seminar in Finance 3 hours  
PREREQ: BA 850V
Selected topics from areas of business finance.

834V Independent Research 3 hours  
Individual research in the field of accounting, finance, management, marketing, quantitative analysis or the environment of business. Maximum of nine hours in three different fields.

CHEMISTRY (CHEM)

Graduate Faculty Members:
Professors C. Robert Keppel, Walter W. Linstromberg, D. N. Marquardt (Chairman), Paul E. Stageman;  
Associate Professor Roger Hoburg;  

Graduate chemistry courses are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.

Course Descriptions

835J Physical Chemistry 3 hours  
PREREQ: Chemistry 226, 236L, 240, 260L; Physics 212; Math 126
A classical thermodynamics, statistical mechanics.
Instrumental Analysis (II) 2 hours

PREREQ: Chemistry 226, 336 (may be taken concurrently.) Instrumental methods of quantitative analysis. Normally taken concurrently with Chemistry 840J Lab.

Instrumental Analysis Laboratory (II) 2 hours

PREREQ: Chemistry 840J (may be taken concurrently.) Laboratory to accompany Chemistry 840J. Normally taken concurrently with Chemistry 865J.

Advanced Inorganic Chemistry (I) 3 hours

PREREQ: Chemistry 226, 228. An advanced lecture course in modern theories and special topics in inorganic chemistry.

Advanced Inorganic Chemistry (II) 3 hours


Advanced Inorganic Chemistry (I) 3 hours

PREREQ: Chemistry 226 (may be taken concurrently.) Theories of chemical bonding, the determination of chemical structures, and the application of modern chemical theory to classical and recent problems in inorganic chemistry.

Advanced Inorganic Chemistry (II) 1-2 hours

PREREQ: Chemistry 463 (may be taken concurrently.) Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques.

Biochemistry (I) 3 hours

PREREQ: Chemistry 226, 228, 336, 338L, 355L. Enzymes and energetics. Biological oxidation. Not open to students with credits in 258 or 259. Chemistry 865M must be taken concurrently with Chemistry 865ML.

Biochemistry Laboratory for Chemistry 665M, Chemistry 865ML, and 865ML Lab must be taken concurrently.

Biochemistry (II) 3 hours

PREREQ: Chemistry 865M, 865ML Lab. Continuation of Chemistry 865M. Chemistry 866M Lab must be taken concurrently with 866M.

Biochemistry Laboratory for Chemistry 865M, 866M Lab. Biochemistry Laboratory for Chemistry 865ML, 866ML.

Biochemistry Problems (I, II) 1-3 hours

PREREQ: Permission of instructor. Independent student research.

Research in Chemistry (Arranged)

PREREQ: Permission of the instructor, graduate standing and an undergraduate chemistry major (not less than 32 hours). Provides the student with an opportunity for experience in the solving of an actual research problem in the field of chemistry.

Research in Chemistry (2 hours)

PREREQ: Graduate standing and permission of instructor. Open channel flow: energy and momentum principles of flow; critical, uniform, and unsteady flow; flow resistance; uniform and irregular channels; channel controls and transitions.
831M Hydroplogy
PREREQ: CE 331
The hydrologic cycle, precipitation, infiltration and soil moisture, run-off, rainfall-runoff relationships, factors affecting the utilization and conservation of water resources.

844M Ground Water Hydrology I
PREREQ: CE 331
The occurrence, distribution, and movement of ground water; formulation and solution of differential equations pertaining to boundary conditions of steady and unsteady state.

842M Construction Management
PREREQ: Permission
Estimating and bidding, scheduling (CPM, PERT), contracts, bonds and insurance cost control systems, equipment utilization, codes and zoning.

844M Structural Analysis III
PREREQ: CE 344
Analytic methods in the design of industrial buildings, tall buildings and space frames.

854M Soil Mechanics II
PREREQ: CE 449 or equivalent
Problem solving in soil mechanics; the interrelationship of theory, sampling and testing; performance studies.

855M Construction Cost and Controls
PREREQ: Permission
Construction estimating, accounting, cost control; construction scheduling, computer applications.

867M Form Design and Steel Erection
PREREQ: CE 369
Design of concrete forms; design of temporary structures for steel erection.

869M Pavement Design and Evaluation
PREREQ: CE 369, CE 449 or equivalent
Design of flexible and rigid pavement systems for highways and airports; design of paving mixtures; evaluation and strengthening of existing pavements.

871M Prestressed Concrete
PREREQ: CE 369
Design of prestressed members, continuous beams, slabs, and circular prestressing. Load factors. ACI code.

880M Matrix Methods of Structural Analysis
PREREQ: CE 344
Computer applications for beams, frames, trusses, grids, and space forms using flexibility and stiffness methods.

881M Plastic Analysis
PREREQ: CE 344

882M Plastic Analysis II
PREREQ: CE 481

883M Civil Engineering Special Projects
PREREQ: Graduate standing and permission
Individual students may select a special semester project in some phase of civil engineering which requires advanced original thinking and the application of advanced analytical or experimental techniques in its completion.

39 Graduate Research (Thesis)
PREREQ: Graduate standing and permission
3-6 hours
Advanced Fluid Mechanics

PREREQ: GE 522, Math 235

Stresses and strains at a point; theories of failure; pressure vessels and spinning disks; torsion, bending and shear; elastic energy methods.

Advanced Mechanics of Materials

PREREQ: GE 522, Math 235

Euler's equations of motion, gyroscopic motion, theory of vibrations; Lagrange's equation and Hamilton's principle; motion of a variable mass; central force problems.

Advanced Fluid Mechanics

PREREQ: GE 331, Math 235

Ideal and real fluid flow; Eulerian and Lagrangian equations of motion; potential theory; conformal transformations; turbulent flow; boundary layer theory.

Experimental Stress Analysis

PREREQ: GE 493 or permission

Investigation of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, lacquer, photoelasticity and membrane analogy.

Applied Elasticity

PREREQ: GE 493, GE 343, Math 235

Stresses and strains, Hook's law and displacements, formulation of problems in elasticity, various methods of solution of two and three dimensional problems, thermal stresses, comparison with approximate solutions.

Theory of Plates and Shells

PREREQ: Math 235

Plates: Governing equations for the bending and stretching of thin plates with small deformations; solution of rectangular and circular plates and plates of various shapes with different boundary conditions by means of classical, energy and numerical methods; large deflection theory of thin plates. Shells: Membrane theory of barrel shells, domes, translation shells of double curvature; bending theory of domes, cylindrical shells; general theory of thin shells; analysis of thin folded plates.

Theory of Elastic Stability

PREREQ: GE 492, Math 235

Buckling columns, elastic buckling of bars and frames, inelastic buckling of bars; torsional buckling, lateral buckling of beams, buckling of rings, curved bars and arches.

Similarity

PREREQ: Permission

The principles and illustrations of dimensional methods, similarity and model testing, distorted and dissimilar models. Applications to structures, fluid flow, heat transmission, electromagnetic theory, acoustics and chemical engineering, differential equations and similarity.

Engineering Vibrations

PREREQ: Math 235, Advanced Math for Engineers

Systems with One Degree of Freedom; Systems with Non-Linear and Variable Spring Characteristics; Systems with Several Degrees of Freedom; Vibrations of Elastic Bodies.
The last date for filing admissions credentials for admission to the Department of Counseling and Guidance is April 22 for the First Summer Session of 1974 and June 15 for the Second Summer Session, July 15 for the First Semester of 1974-75, November 15 for the Second Semester of 1974-75, April 14 for the First Summer Session of 1975 and May 20 for the Second Summer Session.

Master of Arts
Programs for the Master of Arts degree with a major in counseling and guidance will be determined by the major adviser upon request.

Master of Science

Specialization in Agency Counseling

I. Foundation Course
FED 801V, Introduction to Research

II. Selected Cognate Courses
These courses are selected in accordance with student’s particular area of interest.

III. Counseling and Guidance Courses
COUN 890M, Principles of Guidance and Counseling
COUN 892V, Appraisal Techniques in Counseling and Guidance
COUN 894V, Counseling Practices
COUN 895V, Counseling Practicum

Selected additional courses in the department.

Specialization in School Counseling—Secondary Level*

I. Foundation Course
FED 801V, Introduction to Research

II. Selected Cognate Courses
These are most often selected from offerings of the Psychology, Sociology, Elementary Education and Special Education departments.

III. Counseling and Guidance Courses
COUN 890M, Principles of Guidance and Counseling
COUN 892V, Introduction to Counseling Theories
COUN 894V, Counseling Practices
COUN 895V, Counseling Practicum

Selected additional courses in the department.

Specialization in School Counseling—Elementary Level*

I. Foundation Course
FED 801V, Introduction to Research
PSYCH 861V, Advanced Educational Psychology

II. Selected Cognate Courses
These are most often selected from offerings of the Psychology, Sociology, Elementary Education and Special Education departments.

III. Counseling and Guidance Courses
COUN 890M, Principles of Guidance and Counseling
COUN 892V, Introduction to Counseling Theories
COUN 894V, Counseling Elementary School Children
Practicum or Internship

Selected additional courses in the department.

* Teaching certificate required for institutional endorsement to serve as secondary or elementary school counselors in Nebraska or Iowa.
823V Appraisal Techniques in Counseling and Guidance 3 hours
PREREQ: Coun 880M or 881V
Utilization of standardized and nonstandardized appraisal techniques in counseling and guidance.

824V Counseling Practicum 3 hours
PREREQ: Coun 823V, 825V, 827V
The process of establishing a counseling relationship, utilizing different approaches appropriate to client concerns, and developing basic counseling skills.

825V Counseling Practicum 3-4 hours
PREREQ: Coun 824V and permission of department
Counseling experience under the supervision of a Practicum Instructor of the University.

826V Guidance Internship 2-3 hours
PREREQ: Coun 824V and permission of department
Field experience in an approved guidance program under the supervision of a qualified counselor and a guidance professor of the University.

827V Group Techniques in Guidance 2-3 hours
PREREQ: Coun 823V and permission of instructor
The group process with emphasis on the experiential aspect.

828V Community Involvement for Urban Counselors 3 hours
PREREQ: Coun 880M or 881V
An experiential involvement in the ecology of the Urban Disadvantaged. The student will have extended field experiences in the urban area as well as seminar-type activities.

829V Child Assessment in Elementary School Guidance 3 hours
PREREQ: Coun 880M or 881V
Methods and techniques for identification of the elementary child as a unique individual.

830V Elementary School Counseling Practicum 4 hours
PREREQ: Coun 829V and permission of instructor
Counseling in the elementary setting under the supervision of a counseling professor of the University.

831V Elementary Counseling Internship 6 hours
PREREQ: Coun 829V and permission of department
Field experience in all elementary counseling programs under the supervision of a counseling professor and appropriate in-school personnel.

832V Counseling Elementary School Children 3 hours
PREREQ: Coun 829V, 831V
A study of the methods and techniques applicable in counseling young children.

833V Elementary School Counseling Practicum 2-3 hours
PREREQ: Coun 829V and permission of department
Counseling in the elementary setting under the supervision of a counseling professor of the University.

834V Elementary Counseling Internship 6 hours
PREREQ: Coun 829V and permission of department
Field experience in all elementary counseling programs under the supervision of a counseling professor and appropriate in-school personnel.

835V Guidance Services and the Disadvantaged Youth 3 hours
PREREQ: Coun 831V or 832V
A study of the methods and techniques in counseling disadvantaged youth.

836V College Student Personnel Internship 6 hours
PREREQ: Permission of instructor
This course is designed to provide practical work experience under supervision in various areas within student personnel services.

888 Thesis 1-6 hours
PREREQ: Permission
Independent research project written under the supervision of an advisor.

890U Theories and Studies in Occupational Educational Information 2-3 hours
PREREQ: Coun 822V
Advanced study of theories and research related to vocational development, and current research in the construction and use of occupational and educational information.

891U Advanced Studies in Counseling 2-3 hours
PREREQ: Coun 822V and 825V or 827V
An intensive study of selected counseling theories, methods and research.

892U Counseling With Parents 3 hours
PREREQ: Coun 825V or Coun 827V or permission of instructor
A course emphasizing techniques used in working with families.
PREREQ: Dramatic Arts 220 or permission of instructor.

Principles of composition, perspective and color for the stage; the designer's approach to the play, production of ground plans, elevations and sketches.

3 hours

PREREQ: Dramatic Arts 220 and 223.

The historical survey of the theatre and television; elementary electricity; lens systems, reflectors; lamps; control systems.

3 hours

PREREQ: Admission to graduate study in Theatre or permission of instructor.

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.

3 hours

PREREQ: Dramatic Arts 220 or permission of instructor.

A practicum in play selection, analysis, casting, directing and performing.

3 hours

PREREQ: Dramatic Arts 220 or permission of instructor.

The history of human adornment from pre-historic to modern man. Theory and practical in theatrical costume design.

3 hours

PREREQ: Admission to graduate study.

An historical survey of the theatre as an institution and the literature of the theatre from its origins to 1642.

3 hours

PREREQ: Admission to graduate study.

An historical survey of the theatre and its literature from 1642 to the present.

3 hours

PREREQ: Dramatic Arts 171.

Theories and forms of interpretation from antiquity to the present; preparation and presentation of a recital.

3 hours

PREREQ: Dramatic Arts 229 or permission of instructor.

For advanced students of dramatic literature. Important dramatic theories and criticism from antiquity to the present.

3 hours

PREREQ: Dramatic Arts 229, Dramatic Arts 429 and English 262 or permission.

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.

3 hours

PREREQ: Graduate standing and Dramatic Arts 220, Dramatic Arts 423, and Dramatic Arts 429-9 or permission.

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.

3 hours

PREREQ: Graduate standing and permission of instructor.

An indepth study of the principles of play direction.

3 hours

Independent research project written under the supervision of an adviser.

1-6 hours

Graduate Faculty Members:

Professor Elroy J. Steele;
Associate Professors Justin D. Stolen, Keith K. Turner;
Assistant Professors William Anthes, Loisjean Drake Tush

Master of Arts

An applicant for admission to the program for the Master of Arts degree with a major in Economics must have the equivalent of 15 undergraduate semester hours in Economics.

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 15 hours of the required 30 hours, including thesis, must be courses numbered at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, 829V, and 845V.

As part of the required 30 hours, graduate course work in related fields may be taken, up to a total of not more than 9 semester hours.

Master of Science

An applicant for admission to the program for the Master of Science degree with a major in economics must have the equivalent of 15 undergraduate semester hours in economics.

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 16 hours of the required 38 hours must be approved at the 800V-level or above. Students must also satisfactorily complete Economics 820V, 822V, 829V and 845V.

This is also a degree where teachers K-12 grades may concentrate on research concerning economic education in the schools.

As part of the required 38 hours, graduate course work in related fields may be taken, up to a total of not more than 12 semester hours.

Course Descriptions

800J Analytical Foundations of Economics

Fundamental principles of macro and micro economic theory for Graduate Students in Business. The development of modern aggregate theory is examined and an economic analysis of the business firm, its market structure, production possibilities, and cost factors undertaken.

811M Government and Labor

Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

812M Urban Geography (Same as Geography 812M)

Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor.

813M Geography of Manufacturing (same as Geo. 813M)

818M Collective Bargaining

A study of the issues, structures and procedures involved in collective bargaining, and the settlement of disputes, as centered around the labor-management contract.

819M Competition and Monopoly in American Industry

An appraisal of the role of competition and monopoly in the American economy; examination of market structures, conduct, and economic performance in a variety of industries.
4.8

823M Advanced Macroeconomic Theory
PREREQ: Econ 320
A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical developments.

825M Evolution of Economic Thought
(Pre-Medieval through Classical) PREREQ: Econ 201, 202
Tracing the evolution of economic thought from the Pre-Medieval through the Classical period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.

827M Evolution of Economic Thought
(Medieval to Modern Period) PREREQ: Econ 201, 202
Tracing the evolution of economic thought from the Medieval to the Modern period. Focus is on the interaction of institutional milieu, thought, and economic doctrine.

830M Economics
PREREQ: DS 213, Econ 201 and 202 or equivalent
Introduction to the study and application of modern statistical and mathematical methods to economic models.

836M Comparative Economic Philosophy
PREREQ: Econ 320
The main trends of political and economic philosophy are examined in order to understand both the political and economic systems as well as the social and economic consequences of changing economic policy. The emphasis is on the twentieth century.

837M Contemporary Economic Philosophy
PREREQ: Econ 322
A continuation of Economic 436 with emphasis upon contemporary writers and thinkers.

843M Geography of Manufacturing (same as Geography 843M)

845M Monetary Theory and Policy
PREREQ: FIN 343
The analysis of money in the stabilization at high levels, production, employment, income and prices. Emphasis is on international problems.

855M State and Local Finance
PREREQ: Econ 201 and 202
An inquiry into the facts, techniques, principles, theories rules, and policies shaping, directing, governing, and governing the spending, taxing, and utilizing scarce resources for the state and local government.

866M International Economic Development
PREREQ: Econ 201-202
Problems relating to early stages of economic development; investment priorities, mobilizing savings and disbursing programs are studied.

880M Managerial Economics
PREREQ: Econ 320
Economics applied in decision making, with emphasis on application of the micro theory. It aims to bridge the gap between theory and managerial practice, stressing the measurement of theoretical concepts, collection and evaluation of information and comparison of alternatives.

885V Economic Education
PREREQ: Econ 380
Economics applied in decision making, with special emphasis on application of the micro theory. It aims to bridge the gap between theory and managerial practice, stressing the measurement of theoretical concepts, collection and evaluation of information and comparison of alternatives.

886V Economic Education
A continuation of Econ 380V.

887V Economic Education Institute
PREREQ: Permission by Director of the Institute
A study and an in-depth examination of selected economic topics and their relation to citizens, students, teachers, communities, and society.

810V Economic Security
PREREQ: Permission of instructor
The analysis and discussion of problems and programs of economic security, emphasizing historical developments, present programs, possible future developments, and various arguments and proposals. Partial case analysis will be given, especially through student research, to programs aimed at reducing urban poverty.

811V Seminar in Labor Economics
PREREQ: Six hours of credit in undergraduate labor economics or permission
A study and investigation of current developments and issues involving labor institutions, labor relations, wage theories and employment policies. Local and regional studies will be emphasized.

812V Seminar in Micro Theory
PREREQ: Econ 320
This seminar develops modern micro-economic theory with emphasis on utility functions and demand, production functions and cost, price and non-price policy of the firm, market and multi-market equilibrium. Emphasizes theoretical methods and techniques as well as specific content.

821V Micro-economic Theory
PREREQ: Graduate standing in the College of Business Administration or permission of instructor
Econometrics for graduate students in Business. Economic analysis of the business firm and its environment, with emphasis on market structure, production possibilities, and cost factors. Recent developments in the theory of the firm and operations research will be investigated.

824V Seminar in Money and Banking
PREREQ: Permission of instructor
A brief review of the modern monetary systems and the more recent development of the flow-of-funds analysis. A study of the development of the modern financial system and the establishment of the Keynesian economy, especially in connection with inflation, investment, and economic growth. A development of understanding of recent work in fiscal and monetary theory.

826V Macro-economic Theory
PREREQ: Graduate standing in the College of Business Administration or permission of instructor
A study of modern macroeconomics and the development of modern aggregate theory. Recent monetary and fiscal policies regarding employment, inflation, investment, and economic growth are examined. Problems of applying policy in a dynamic economic environment are emphasized.

827V Research Methods
PREREQ: Permission of Instructor
The application of specific mathematical and statistical procedures to business and economic research.

830V Econometrics
PREREQ: Permission of Instructor
Econometrics for graduate students in Business. Economic analysis of the business firm and its environment, with emphasis on market structure, production possibilities, and cost factors. Recent developments in the theory of the firm and operations research will be investigated.

845V Seminar in Money and Banking
PREREQ: Six hours in undergraduate monetary courses or permission of the instructor
A brief review of the modern monetary systems and the more recent development of the flow-of-funds analysis. A study of the development of the modern financial system and the establishment of the Keynesian economy, especially in connection with inflation, investment, and economic growth. A development of understanding of recent work in fiscal and monetary theory.

850V Seminar in International Economics
PREREQ: Econ 385 or 466 or permission of instructor
A study of modern money and banking, with special emphasis on price and non-price policy of the firm, market and multi-market equilibrium. Emphasizes theoretical methods and techniques as well as specific content.

867V Seminar in Urban Economics
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.
A study of the underlying assumptions, techniques, and applications of single and multiple equation regression analysis in economics.

884V Independent Study in Topics in Urbanism
PREREQ: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.
A study of the underlying assumptions, techniques, and applications of single and multiple equation regression analysis in economics.
Admission to the Program

1. Applicants must furnish all credentials requested in the standard application for admission to Graduate Studies.
2. Applicants must hold a Bachelor's degree from a regionally accredited institution.
3. Applicants must have at least two years of experience as a certified teacher.

Admission to Candidacy

1. Applicants must have taken nine approved hours with grades of B or better. Students taking course work beyond nine hours do so at their own risk unless such course work has had prior approval.
2. Applicants must have taken either the Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analogies Examination.
3. Applicants must complete the Admission to Candidacy application which requires reference recommendations and approval of a program by an advisor. This application should be procured immediately upon completion of nine hours and the qualifying examination.

Program Design

The Master of Science degree, with a major in Educational Administration, has been designed to allow the department to endorse a student to be either an elementary administrator or a secondary administrator. Along with successful completion of one of the programs, only students with three years of teaching experience will receive institutional endorsement.

Major in Elementary Administration and Supervision

I. Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDAD 801V</td>
<td>Introduction to Research</td>
<td>15</td>
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<tr>
<td>EDAD 840V</td>
<td>Practicum I in EDAD</td>
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<tr>
<td>EDAD 841V</td>
<td>Practicum II in EDAD</td>
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<tr>
<td>EDAD 847V</td>
<td>Seminar in EDAD</td>
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</tr>
<tr>
<td>EDAD 850V</td>
<td>Adm &amp; Suprv in Junior High School</td>
<td></td>
</tr>
<tr>
<td>EDAD 855V</td>
<td>School Business Management</td>
<td></td>
</tr>
<tr>
<td>EDAD 856V</td>
<td>School Finance</td>
<td></td>
</tr>
<tr>
<td>EDAD 860V</td>
<td>School Plant Planning and Operation</td>
<td></td>
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<tr>
<td>EDAD 861V</td>
<td>Organization and Adm. of the Physical Plant</td>
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<tr>
<td>EDAD 870V</td>
<td>Administration and Staff Personnel</td>
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<tr>
<td>EDAD 880V</td>
<td>Adm &amp; Suprv of Vocational Education</td>
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<tr>
<td>EDAD 885V</td>
<td>Urban School Adm.</td>
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<tr>
<td>EDAD 889V</td>
<td>Administration of Higher Education</td>
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<tr>
<td>EDAD 894V</td>
<td>School Law</td>
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</tbody>
</table>

II. Selected courses from the following

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<thead>
<tr>
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<tbody>
<tr>
<td>EDAD 810V</td>
<td>Research Project in EDAD</td>
</tr>
<tr>
<td>EDAD 820V</td>
<td>Data Processing in EDAD</td>
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<tr>
<td>EDAD 830V</td>
<td>Seminar in EDAD</td>
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<tr>
<td>EDAD 840V</td>
<td>School Business Management</td>
</tr>
<tr>
<td>EDAD 845V</td>
<td>School Finance</td>
</tr>
<tr>
<td>EDAD 850V</td>
<td>School Plant Planning and Operation</td>
</tr>
<tr>
<td>EDAD 851V</td>
<td>Organization and Adm. of the Physical Plant</td>
</tr>
<tr>
<td>EDAD 854V</td>
<td>Administration and Staff Personnel</td>
</tr>
<tr>
<td>EDAD 858V</td>
<td>Adm &amp; Suprv of Vocational Education</td>
</tr>
<tr>
<td>EDAD 865V</td>
<td>Urban School Adm.</td>
</tr>
<tr>
<td>EDAD 870V</td>
<td>Administration of Higher Education</td>
</tr>
<tr>
<td>EDAD 895V</td>
<td>School Law</td>
</tr>
</tbody>
</table>

III. Selected courses to be taken outside of the department with advisor's approval

<table>
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<tr>
<th>Course Code</th>
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9 hours

Major in Secondary Administration and Supervision

I. Required Courses

<table>
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<tr>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EDAD 801V</td>
<td>Introduction to Research</td>
<td>15</td>
</tr>
<tr>
<td>EDAD 840V</td>
<td>Practicum I in EDAD</td>
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</tr>
<tr>
<td>EDAD 841V</td>
<td>Practicum II in EDAD</td>
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15 hours

EDAD 885V   | Practicum III in EDAD                            |       |

EDAD 889V   | Practicum IV in EDAD                             |       |
II. Selected Courses from the following ............................................. 12 hours
EDAD 810V Research Project in EDAD
EDAD 825V Data Processing in EDAD
EDAD 830V Seminar in EDAD
EDAD 840V Admin & Supv in Junior High School
EDAD 850V School Business Management
EDAD 890V School Finance
EDAD 860V School Plant Planning and Operation
EDAD 881V Organization and Admin of the Physical Plant
EDAD 870V Administration and Staff Personnel
EDAD 871V Interpersonal Relationships in EDAD
EDAD 880V Admin & Supv of Vocational Education
EDAD 881V Urban School Admin
EDAD 890V Admin. of Higher Education
EDAD 954A School Law

III. Selected courses to be taken outside of the department with adviser's approval ....................................................... 9 hours

Specialist in Education

This outline of program includes the work which might typically constitute the fifth and sixth years of collegiate work. The total coursework for both M.S. and Ed.S. would accumulate to not less than 66 graduate hours. The program reflects the philosophy which supports graduate education at the University that each student should be able to design a portion of his program to best harmonize his needs and ambitions. Each program will be designed with the aid of the student's advisor and must be approved by the candidate's committee.

Students cannot assume that any post M.A. or M.S. degree course work will apply to the Ed.S. degree unless such course work has been included as part of a planned program approved by the student's advisory committee.

Admission to the Program

1. Applicants must have been admitted to Graduate Studies.
2. Applicants must hold a Master's degree from a regionally accredited institution. All graduate work taken by the applicant prior to admission to the program must have a grade point average of 3.25.
3. Applicants must hold standard certification in educational administration and show evidence of having completed at least one year of experience as an educational administrator or supervisor.
4. Applicants must have taken either the Graduate Record Examination—verbal, quantitative and advanced (Education) or the Miller Analog Test Examination. Scores on the GRE must total at least 1200 and the score of the M.A. must be at the 30th percentile or better. Acceptance of candidates with scores falling below those indicated here would be determined by committee action.
5. A recommendation for study for the Ed.S. degree must be made by the adviser. This recommendation must be made prior to a second registration. Usually, it will precede the initial registration.

Residency Requirement

Candidates are required to pursue a portion of their work in residence. It may be fulfilled in one of the following ways:
1. As a full-time student (12-hour load) during one semester of the academic year.
2. As a full-time student (12-hour load) during two consecutive summer terms of the same summer session.

Program Design

The program has been designed to include the flexibility needed by those preparing to become school principals; those preparing to become school superintendents; those preparing to become special education administrators and supervisors.

The capstones of this Ed.S. program are the administration seminars (Ed.Ad. 800U and 810U) and the field project (Ed.Ad. 811U).

I. Core Professional Courses ................................. 42-48 hours
Including work in school finance, school business management, supervision, school law, administration seminars, and field work.

II. Related Professional Courses ......................... 12-18 hours
Including selected work in such areas as curriculum, guidance, reading, foundations, and special education.

III. Related Cognate Courses ............................. 9-15 hours
Including selected work in such areas as economics, English, psychology, business administration, sociology, geography, history, speech, mathematics.

Procedures in the Program

Upon inquiry about the program in the Graduate Office, students are assigned an advisor by the Chairman of the Department. This advisor will conduct a screening interview, the results of which become a part of the student's permanent record. In questionable cases, the advisor may ask for the assistance of a committee.

Assuming a satisfactory interview, the student will be notified of acceptance, and his committee appointed by the Dean for Graduate Studies. The committee will meet to consider the student's planned program and preliminary coursework, at which time the student should apply for degree candidacy. Upon acceptance into candidacy, the tentative program shall become the permanent planned program.

Course Descriptions

800V Special Studies in Educational Administration and Supervision .............................. 3 hours
A series of intensive courses especially designed for educational administrators and supervisors—scheduled as regular seminars or workshops, according to purpose.

810V Research Project in Educational Administration .................................................. 1-3 hours
Individual or group study and analysis of specific problems in educational administration and supervision.

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

830V Seminar in Educational Administration .................................................. 3 hours
A study of educational problems and their relationship to and implications for educational administration. (Course should be taken in last nine hours of the Master of Science Degree.)

851V Foundations of Educational Administration and Supervision .......................... 3 hours
A study of the nature 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 hours
PREREQ: Completion of 24 hours of Graduate study and approval of written application. 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.

841V Practicum in Educational Administration and Supervision .................................. 3 hours
PREREQ: EDAD 890V 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.
54V Administration and Supervision in Elementary Schools 3 hours
PREREQ: FED 801V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.

547V Administration and Supervision in Secondary Schools 3 hours
PREREQ: FED 801V and EDAD 835V
The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.

548V Administration and Supervision in Junior High School 3 hours
This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.

555V School Business Management 3 hours
An analysis of the functions of business management; budgetary procedures, financial accounting, auditing and reporting; management of funds, purchasing procedures and inventory; administration and protection of property; and administration of transportation.

566V School Finance 3 hours
PREREQ: FED 801V and EDAD 835V
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.

569V School Plant Planning and Operation 3 hours
PREREQ: FED 801V and EDAD 835V
Includes steps in planning the modern school building: site selection, building construction and design, school furniture and equipment; maintenance and operation; rehabilitation; scheduling of work; and custodial care.

561V Organization and Administration of the Physical Plant 3 hours
PREREQ: EDAD 860V
Designed to give the school administrator competence in organizing the maintenance and operation program of the school plant; includes long range maintenance, rehabilitation and remodeling, financing, scheduling of work and custodial care.

570V Administration and Staff Personnel 3 hours
PREREQ: FED 801V and EDAD 835V
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.

571V Interpersonal Relationships in Educational Administration 3 hours
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.

580V Administration and Supervision of Vocational Education 3 hours
Basics concepts for administration and supervision of vocational education, as related to the needs of the superintendent, principal, supervisor.

581V Urban School Administration 3 hours
This course is designed to acquaint students of educational administration with urban problems and issues which most significantly affect the administration of city schools.

585V Administration of Higher Education 3 hours
PREREQ: Admission to graduate study
A study of the major functions of higher education, with emphasis on the principles involved in organizing and directing the academic program, the activities of the student body, the faculty and staff, personnel policies and planning financing the program, operating the buildings and grounds and conducting the public relations program.

600U Seminar in Research Design 3 hours
PREREQ: Admission to Ed.S. Program
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.
Students seeking the Master of Science Degree in Education with a major in Urban Education will find an individual program of study will be tailored to fit the applicant's experience background, previous preparation, and educational objectives. The following general program outline is provided.

**Required Courses**
- 811V, Introduction to Research
- 860M, Education and Society
- 860M, Urban School
- 910V, Research Project

**Recommended Professional Courses**
- 800M, Principles of Guidance
- 822M, Guidance in the Elementary School
- 822V, Occupational Guidance
- 822V, Individual Analysis
- 830M, Mental Health in the School
- 830M, Meeting the Needs of the Disadvantaged Child
- 830V, Growth and Learning Problems of the Disadvantaged
- 830V, Special Problems in Urban Education
- 835V, Seminar in Education
- 837, Problems in Teaching Reading, Elementary
- 837, Problems in Teaching Reading, Secondary
- 837V, Reading Diagnosis
- 840V, Teaching the Exceptional Child
- 840V, Problems of the Disadvantaged

**Cognate Courses**
- 800M, Principles of Guidance
- 822M, Guidance in the Elementary School
- 822V, Occupational Guidance
- 822V, Individual Analysis
- 830M, Mental Health in the School
- 830M, Meeting the Needs of the Disadvantaged Child
- 830V, Growth and Learning Problems of the Disadvantaged
- 830V, Special Problems in Urban Education
- 835V, Seminar in Education
- 837, Problems in Teaching Reading, Elementary
- 837, Problems in Teaching Reading, Secondary
- 837V, Reading Diagnosis
- 840V, Teaching the Exceptional Child
- 840V, Problems of the Disadvantaged

**Course Descriptions**

**811M Mental Health**
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 creating 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.

**811M Principles of Adult Education**
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.

**811M Adult Group Leadership**
A study of adult groups in modern society and the characteristics of effective leadership in all types of groups.

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**Recommended Professional Courses**

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<thead>
<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>FED 800V</td>
<td>Introduction to Research</td>
<td>12</td>
</tr>
<tr>
<td>FED 806V</td>
<td>Education and Society</td>
<td>3</td>
</tr>
<tr>
<td>FED 811V</td>
<td>Research Project</td>
<td>3</td>
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</tbody>
</table>

**Cognate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COUN 822M</td>
<td>Guidance in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>COUN 822V</td>
<td>Occupational Guidance</td>
<td>3</td>
</tr>
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<td>COUN 822V</td>
<td>Individual Analysis</td>
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<td>3</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**811M Mental Health**
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 creating 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.

**811M Principles of Adult Education**
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.

**811M Adult Group Leadership**
A study of adult groups in modern society and the characteristics of effective leadership in all types of groups.
Graduate Faculty Members:

Professors Robert L. Ackerman, (Chairman), Hollie Bethel, Helen Howell;  
Associate Professor: Mary J. Lickteig  
Assistant Professor Irene Hoover

Master of Arts

Programs for the Master of Arts degree with a major in elementary education will be determined by the major adviser upon request.

Master of Science

Applicants should hold a valid elementary education teaching certificate. Students pursuing a Master of Science degree with a major in Elementary and Early Childhood Education will be expected to complete the listed required courses and to choose an area of concentration as described below:

I. Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FED 801V</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>FED 802V</td>
<td>History and Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>EED 810V</td>
<td>Diagnostic and Corrective Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EED 840V</td>
<td>Innovations and Trends in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>EED 815V</td>
<td>Introduction to Curriculum Planning—Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EED 844V</td>
<td>Seminar in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 816V</td>
<td>Administration and Supervision in Elementary Schools</td>
<td>3</td>
</tr>
</tbody>
</table>

II. Area of Concentration

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 major adviser. Possible choices include: Reading, Early Childhood Education, Guidance, Improvement of Instruction, Learning Disabilities, Urban Education, Educational Administration, or an academic concentration, e.g., history, English mathematics.

III. Electives

Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>820M</td>
<td>Literature for Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>827M</td>
<td>Current Trends in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>800V</td>
<td>Special Studies</td>
<td>3</td>
</tr>
<tr>
<td>810V</td>
<td>Research Project</td>
<td>3</td>
</tr>
<tr>
<td>831V</td>
<td>Diagnostic and Corrective Instruction</td>
<td>3</td>
</tr>
<tr>
<td>830V</td>
<td>Improvement of Instruction in Elementary Science</td>
<td>3</td>
</tr>
</tbody>
</table>

This course is designed for graduate students in education who wish to become better informed about the recently developed programs for elementary education, the methods, materials, philosophy, and emphasis in instruction, which are characteristic of these programs.

Graduate Faculty Members:

Professors Bruce Baker (Chairman), Robert D. Harper, Richard L. Lane, Glen A. Newkirk, Ralph M. Wardle;  
Associate Professor: Jean Bresler  
Assistant Professors: John J. Detisch, John J. McKenna, Gene E. Russell

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

**Plan A:** Successful completion of 24 credit hours in course work, 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 course work, 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 an additional three hours of credit: English 805V, 807V, 809V, 810V, 813V, 820V, 898V, 912, 915.

### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>815M</td>
<td>Contemporary French and German Novel</td>
<td>3 hours</td>
<td>Permission</td>
</tr>
<tr>
<td></td>
<td>Comparative study of selected contemporary French and German novels in translation. Cross-listed as French 815M and German 815M.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>833M</td>
<td>Sixteenth Century Literature</td>
<td>3 hours</td>
<td>Graduate</td>
</tr>
<tr>
<td></td>
<td>Poetry and prose of the English Renaissance, from its continental origins to the Elizabethan Age.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>834M</td>
<td>Chaucer</td>
<td>3 hours</td>
<td>Eng. 231</td>
</tr>
<tr>
<td></td>
<td>A study of the language and writing of Chaucer, with emphasis on the Canterbury Tales.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>840M</td>
<td>English Literature in the Age of Pope and Swift</td>
<td>3 hours</td>
<td>Graduate</td>
</tr>
<tr>
<td></td>
<td>Poetry, prose (exclusive of the novel) and drama of England during the second half of the eighteenth century.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>841M</td>
<td>The Age of Johnson</td>
<td>3 hours</td>
<td>Graduate</td>
</tr>
<tr>
<td></td>
<td>Poetry, prose (exclusive of the novel) and drama of England during the second half of the eighteenth century.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>848M</td>
<td>Seventeenth Century Literature</td>
<td>3 hours</td>
<td>Graduate</td>
</tr>
<tr>
<td></td>
<td>A study of the English poetry and prose of the seventeenth century to the Restoration with emphasis on Milton.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>850M</td>
<td>English Drama before 1642</td>
<td>3 hours</td>
<td>Eng. 231 or permission</td>
</tr>
<tr>
<td></td>
<td>A study of the development of the English drama, exclusive of Shakespeare, from the beginnings to 1642.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>860M</td>
<td>Structural Linguistics</td>
<td>3 hours</td>
<td>Graduate or permission</td>
</tr>
<tr>
<td></td>
<td>An analysis of the English language as it is spoken with the end view of gaining better understanding of the language and how to make it work most effectively.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>865M</td>
<td>The English Novel</td>
<td>3 hours</td>
<td>Graduate</td>
</tr>
<tr>
<td></td>
<td>The development of the English novel from the beginning to the end of the Victorian period.</td>
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<td></td>
</tr>
<tr>
<td>868M</td>
<td>History of the English Language</td>
<td>3 hours</td>
<td>Eng. 353 or permission</td>
</tr>
<tr>
<td></td>
<td>A study of the internal and external forces which have influenced the development of the English language.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>972M</td>
<td>Medieval English Literature</td>
<td>3 hours</td>
<td>Eng. 231 or permission</td>
</tr>
<tr>
<td></td>
<td>A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500.</td>
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<td></td>
</tr>
</tbody>
</table>
999 Thesis

912 Seminar in Shakespeare
PREREQ: Graduation Critic analysis of ten tragedies or ten comedies of Shakespeare. (R. Wardle)

915 Seminar in English Literature 1750-1830
PREREQ: Graduate Studies in English literature of the Age of Johnson and of the Age of Wordsworth. (R. Wardle)

FOREIGN LANGUAGES

Graduate Faculty Members:
Professor Woodrow L. Most (Chairman);
Associate Professors Gaylord Todd, Kenneth Eller;
Assistant Professors Anthony Jung, Norman J. Luna

Graduate courses in the Department of Foreign Languages are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.

Course Descriptions

French (FREN)

800M Independent Study
PREREQ: Permission of the instructor
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.

805M Introduction to the Study of Language
PREREQ: Graduate standing or permission
A broad, general study of the nature of language, how it functions and changes; references to contemporary trends in linguistic analysis and research.

815M Contemporary French and German Novel
PREREQ: Permission
Comparative study of selected contemporary French and German novels. Cross-listed as German 815M and English 815M.

817M Contemporary French and German Drama
PREREQ: Permission
Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in French for French students. Cross-listed with German 817M and English 817M.

819M Comparative Studies in French-Anglo-American Literature
PREREQ: Permission
A comparative study of selected works in French and Anglo-American literature. Conducted in English with English translations. Additional readings in French for French students. Cross-listed as English 819M.

820M Sixteenth Century French Literature
PREREQ: Any 300 course in French literature or permission
Literature of the Renaissance, Rabelais, Ronsard, Montaigne.

821M Seventeenth Century French Literature
PREREQ: Any 300 course in French literature or permission
The Classical School, Descartes, Pascal, Corneille, Moliere, Racine, Lafontaine.

840M Eighteenth Century French Literature
PREREQ: French 315 or permission
Comedy, novel, poetry, drama, the Philosophers, Pre-Romanticism.

851M-852M Nineteenth Century French Literature
PREREQ: French 315 or permission
651M: 1789 to 1848, Chateaubriand, Stendhal, Michelet, Balzac, Hugo, 1850-1885, Naturalism, Parnasse, Symbolism.

853M Contemporary French Theater
PREREQ: French 315 or permission
Study and analysis of selected French plays from 1900 to the present.

854M Modern French Novel
PREREQ: French 315 and 316 or permission
Reading and discussion of representative novels of the modern period.

855M Twentieth Century Poetry
PREREQ: French 315 and 316 or permission
Examination of the development of poetry in the contemporary period.

860M Pre-Seminar
PREREQ: Permission of instructor
A detailed study of narrower phrases of French literature, language, or culture.

German (GERM)

800M Independent Study
PREREQ: Permission of the instructor
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.

805M Introduction to the Study of Language
PREREQ: Graduate standing or permission
A broad, general study of the nature of language, how it functions and changes; references to contemporary trends in linguistic analysis and research.

815M Introduction to Germanic Folklore
PREREQ: Graduate standing and permission
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 material studied by the student of folklore. Introduction to the folklorist's methodology in collecting, archiving, and research. Lectures and class discussions of popular beliefs, cultural bias, and prejudices.

817M Contemporary French and German Drama
PREREQ: Permission
Comparative study of selected contemporary French and German plays. Cross-listed as French 817M and German 817M.

821M Contemporary French and German Drama
PREREQ: Permission
Comparative study of selected contemporary French and German plays. Conducted in English with English translations. Additional readings in German for German students. Cross-listed with French 817M and English 817M.

831M German Literature of the 19th Century
PREREQ: German 303
The dramatic, epic and lyric works of the nineteenth century German literature.

832M German Literature of the 20th Century
PREREQ: German 303
The principal dramatic, epic and lyric works of the twentieth century German literature.

833M German Civilization from the 18th Century to the Present
PREREQ: Graduate standing and permission
Detailed study of German art, architecture, literature, music and philosophy. The influence of the sciences and of technology upon modern German civilization and culture.

850M German Novel
PREREQ: German 303 or permission
Survey of the German novel from its beginning to the twentieth century.

840M German Novel
PREREQ: German 303 or permission
Survey of the German short story, its historical origins, characteristics.

844M German Drama
PREREQ: German 303 or permission
Study of several of the better-known dramas, history of drama development in Germany.
840M German Literature of the Seventeenth Century
PREREQ: German 303 or permission of instructor
The principal dramatic epic and lyric works of seventeenth century German literature.
3 hours

850M German Literature of the Eighteenth Century
PREREQ: Permission of instructor
A study of representative authors of the Enlightenment, Storm and Stress, and German Classicism: Lessing, Herder, Schiller, and Goethe.
3 hours

855M Bibliography and Methodology
PREREQ: Permission of instructor
An introduction to the basic bibliography and methodology of German literature and language.
1-2 hours

860M Independent Study
PREREQ: Permission of instructor
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.
1-3 hours

865M Introduction to the Study of Language
PREREQ: Graduate standing or permission
A broad, general study of the nature of language, how it functions and changes: references to contemporary trends in linguistic analysis and research.
3 hours

870M Theater of the Golden Age
PREREQ: 317 or permission of instructor
Foremost Spanish dramatists and plays of the sixteenth and seventeenth centuries, with emphasis on Lope de Vega, Tirso de Molina and Calderon de la Barca.
3 hours

875M Novel of the Golden Age
PREREQ: 317 or permission of instructor
Study of the prose masterpieces of the sixteenth and seventeenth centuries, including such works as Lazarillo de Tormes, La Celestina, and Don Quixote.
3 hours

880M Spanish American Literature of the 20th Century
PREREQ: Graduate standing or permission
Critical and analytical study of the foremost Spanish American dramatists, poets, and essayists from Modernism to the present.
3 hours

885M Mexican American Literature
PREREQ: Permission of instructor
A study of representative works of Mexican American, Spanish American, and American writers, along with their cultural and historical antecedents. Cross-listed as History 446M.
3 hours

890M Spanish American Novel
PREREQ: 323 or permission
Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors.
3 hours

895M Generation of 1898
PREREQ: 318 or permission
Examination of the ideology, philosophy, and literary techniques of Unamuno, Martinez Ruiz, Valle-Inclan, Baroja, and Antonio Machado.
3 hours

895M Spanish American Short Story
PREREQ: 321 and 322 or permission
Representative stories of the nineteenth and twentieth centuries from Romanticism to current production.
3 hours

895M Modern Drama of Spain
PREREQ: 318 or permission
Ideologies, techniques, trends, and influences of the major Spanish dramatists of the nineteenth and twentieth centuries.
3 hours

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ADMISSION REQUIREMENTS

An applicant for admission to either the Master of Arts or the Master of Science degree program in geography must present a prerequisite of at least 15 undergraduate semester hours of geography including Physical (105 or 107 or 117), and Cartography (353), and Economic (318). Individual programs of study will be designed for incoming graduate students on the basis of GRE scores and personal interview. This should enable each student and his adviser to construct a program oriented to individual needs and desires.

Basic courses required for either an M.A. or M.S. degree include Geography Concepts; History and Philosophy of Geography, 801V; and Geography Concepts; Quantitative Methods, 802V; and Field Geography, 861V. In addition, all students will be required to attend General Seminar. The remainder of the program shall consist of courses selected by the student with the advice and consent of an advising committee.
Course Descriptions

301J History of Nebraska (Same as Hist. 841J) ........................... 3 hours
PREREQ: Permission
From earliest known records to the present.

802M Conservation of Natural Resources .......................... 3 hours
PREREQ: 3 hours of Geog.
A study of physical, cultural, and human resources of nations with emphasis on the United States. Includes the history of conservation in the U.S., the philosophy behind the movement, current conservational practices and problems, and the direction in which resource use and conservation are moving.

800M Computer Mapping and Data Analysis ...................... 3 hours
PREREQ: Geog. 335 and a course in introductory statistics.
Computer techniques in mapping and analyzing aerial data. Emphasis is placed upon data bank retrieval and address systems as input to various mapping and statistical programs.

812M Urban Geography (Same as Econ. 812M and Soc. 812M and Hist. 845M) 3 hours
A geography of the city from the viewpoint of history, site and situation, external relations, internal relations, and the comparative study of cities.

813M Geography of Manufacturing (Same as Econ. 813M) ....... 3 hours
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.

814M Urban Sociology (Same as Soc. 814M) ......................... 3 hours
PREREQ: Graduate
A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social, psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.

823M Great Plains and Nebraska (Same as Hist. 823M) ....... 3 hours
PREREQ: 3 hours of Geog.
This is a regional geography course intended for geography majors and Arts and Sciences students who may have an interest in this particular area. It is desirable to have had previous study with regional geography.

825M Landform Studies I (Geomorphology I) ....................... 3 hours
PREREQ: Geog. 107, or 117, or 203
Primarily a lecture course with quantitative work included. Emphasis on understanding more theoretical aspects of processing and conditioning factors which produce landforms. Should be regarded as first half of a two-semester landform studies course. Evolution of slopes is emphasized.

826M Landform Studies II (Geomorphology II) ................... 3 hours
PREREQ: Geog. 107, or 117, or 203
Primarily a lecture course with quantitative work included. 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.

827M Climatology .......................................................... 3 hours
PREREQ: Geog. 106, a meteorology course, or permission
Will include basic review of the various atmospheric elements; climatic classification; analysis of selected climatic regions; and effect of climatic phenomena on shaping the cultural and physical landscape in general.

843M American Urban History since 1870 (Same as Hist. 843M) 3 hours
PREREQ: Permission
Historical survey of urban development in the United States from the colonial period through the 1860's urban society, problems, institutions, role of cities in national history; American ambivalence toward cities.

844M American Urban History Since 1870 (Same as Hist. 844M) 3 hours
PREREQ: Permission
American urbanization from 1870's to the present; influence of technology, transportation, industry, immigration; urban policies and reform movements; emergence of metropolitan America and problems of the contemporary super city.
86IV Field Geography
PREREQ: Permission
A systematic discussion of techniques for studying and analyzing terrain features, land use characteristics, and the nature of their patterns as a part of the whole geographic environment.

86V Land Use
PREREQ: Geog. 812M. Permission
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.

87V Cartographic Methods
PREREQ: Geog. 812M. Permission
Teaches the student proper use of drafting and map layout and exposure to the latest cartographic techniques, leading to a high level of competence in the design and interpretation of maps.

87V Population Seminar (Same as Soc. 871V)
PREREQ: Permission
The significance of differences from place to place in the number, kind, and quality of human inhabitants and changes through time.

88V Independent Study in Topics on Urbanism**
PREREQ: Undergraduate major in one of the social sciences, plus six hours of graduate work in one of the Social Sciences Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.

89V Urban Seminar in Metropolitan Planning and Development
PREREQ: Geog. 812M or recommendation from P.A. Sociology, or Economics Department. Administrative status of planning in metropolitan areas with special emphasis on structure of planning departments, comprehensive plans and problems of annexation.

89S Seminar in Urban Econometrics
PREREQ: Graduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.

89T Seminar in Urban Economics (Same as Economics 885V-886V)
PREREQ: At least 6 hours of upper division course work in economics, or permission of instructor. Examination of the theoretical basis for the analysis of urban economic problems with emphasis upon the policy alternatives applicable toward their possible solution. Separate credit may be received for each course.

89V Seminar in Regional Economics
PREREQ: At least 6 hours of upper division course work in economics, or permission of instructor. Examination of the current developments and issues involving regional economic development and planning. These courses provide the theoretical basis for understanding and analyzing economic problems on a regional nature. In addition, policy alternatives, decision making, and measurement techniques are examined.

89V Urban Regional Research (Same as Econ. 895V-896V)
PREREQ: Graduate enrollment in the Master of Science in Economics program and acceptance by a graduate advisor. Used in candidates for the Master of Science Degree in economics in lieu of a Master's thesis. A study consisting of urban economic problems, employing research techniques. Students do independent research, consulting with advisor, and submitting completed report to a departmental committee.

89V Seminar in Problems of Political Geography
PREREQ: Permission, and Geog. 893C. Case studies in land boundaries, territorial waters, and in population aspects of boundary problems. A review of important studies in Political Geography.

Professor Gordon B. Schiltz

90V Seminar in Regional Geography
PREREQ: 6 credits, maximum 3 per semester, except foreign country field work.

Professor Gordon B. Schiltz

91V General Seminar (required, no credit)

92V Review of current research by geographers including national and international associations and initial thesis proposal.

Professor Gordon B. Schiltz

GERONTOLOGY (Ger)

Graduate Faculty Members:
Professor David Peterson (Chairman)
Graduate courses are offered to fulfill requirements for a minor field or as selected courses on a plan of study.

Course Descriptions

816M Educational Gerontology
PREREQ: None Dr. Petersen
An introduction to the field of education for and about the aging. The institutional and processes of education will be analyzed to determine their relationships and value to persons who are now old and those who are aging.

816M Applied Social Gerontology
PREREQ: 6 credit hours of Sociology or permission Dr. Clute
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.

815M Health Aspects of Aging
PREREQ: None Dr. Westerfield
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.

818M Geropsychology
PREREQ: 6 hours of Psychology or 6 hours of Gerontology or permission Dr. Petrigl
This course considers the psychology of aging. The focus will be on the period from middle years to later years rather than the infant, pre-school, adolescent and young-old-ages.

822M Special Studies in Gerontology
PREREQ: Permission of the instructor Dr. Peterson
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.

914M Counseling Skills in Gerontology
PREREQ: Permission of the instructor Dr. Blak
The application of basic counseling skills to work in Gerontology.

HEALTH, PHYSICAL EDUCATION, AND RECREATION (HPER)

Graduate Faculty Members:
Associate Professor Richard B. Flynn (Chairman)
Assistant Professor John Raducha
The Department of Health, Physical Education, and Recreation offers graduate courses in the areas of health education (HED), recreation education (RED), and physical education (PED). At present, the Master of Arts and the Master of Science degrees are offered with a major in physical education.

MASTER OF SCIENCE

Major in Physical Education

To be admitted to this degree program, students must possess an undergraduate major or minor in physical education. Students pursuing the Master of Science Degree with a major in physical education will select course work from the five areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. The student in consultation with the major adviser will determine the exact courses leading to the degree.

### AREA

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. PE Core</td>
<td></td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>PE 822V Problems and Issues in Physical Education</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PE 820V Curriculum in Physical Education</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PE 840V Motor Learning and Performance</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PE 915V Kinesiological Analysis of Motor Skills</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>II. Research</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Research Methods, Statistical Methods</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>III. Professional Specialization</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Seminars, Workshops, Independent Research, Special Studies</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>IV. Related Professional Courses</td>
<td></td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>V. Related Academic Courses</td>
<td></td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

MASTER OF ARTS

Major in Physical Education

To be admitted to this degree program, students must possess an undergraduate major or minor in physical education. Students pursuing the Master of Arts Degree with a major in physical education will select course work from the six areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. The student in consultation with the major adviser will determine the exact courses leading to the degree.

### AREA

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
<th>Min</th>
<th>Max</th>
</tr>
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<tbody>
<tr>
<td>I. PE Core</td>
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<tr>
<td>PE 822V Problems and Issues in Physical Education</td>
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<td>PE 820V Curriculum in Physical Education</td>
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<td>PE 840V Motor Learning and Performance</td>
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<td>PE 915V Kinesiological Analysis of Motor Skills</td>
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<td>II. Research</td>
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<tr>
<td>Research Methods, Statistical Methods</td>
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<tr>
<td>III. Professional Specialization</td>
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<tr>
<td>Improvement of Instruction, Teaching Seminars, Workshops, Independent Research, Special Studies</td>
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<tr>
<td>IV. Related Professional Courses</td>
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<td>V. Related Academic Courses</td>
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<tr>
<td>VI. Thesis</td>
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<td>6</td>
<td>6</td>
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</tbody>
</table>

* Minimums or maximums are determined by adviser.

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**Course Descriptions**

**624M Organization and Administration of Recreation**

- **3 hours**
- **PREREQ:** At least 8 hours of upper division courses in recreation or permission
- Designed to provide a background of information on community recreation with special attention to organization, promotion, and development of recreational programs.

**655M Health Aspects of Aging**

- **3 hours**
- An examination of factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders.

**653M Measurement and Evaluation in Physical Education**

- **3 hours**
- Analysis of tests, measurement apparatus and testing procedures used in physical education. Includes a study of basic statistics. Practical experience in test administration in the schools is provided.

**604M Physiology of Exercise**

- **3 hours**
- The response of human systems to exercise and physical conditioning programs. Includes a study of the physiological basis of muscular strength, endurance, and cardiovascular stress; the effects of nutritive aids on physical performance; and physiological principles of conditioning and fitness programs.

**603V Special Studies**

- **1-3 hours**
- **PREREQ:** Permission of Department.
- A series of intensive courses—scheduled as regular seminars, or workshops, according to purpose.

**810V Research Project**

- **1-3 hours**
- **PREREQ:** Permission of Instructor. Individual or group study and analysis of specific problems in health, physical education or recreation.

**622V Problems and Issues in Physical Education**

- **3 hours**
- An examination of current problems and issues in college, secondary, and elementary physical education. Special emphasis is given to problems that relate to the general aims and purposes of physical education.

**625V Supervision of Physical Education**

- **3 hours**
- Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs in physical education.

**628V Curriculum in Physical Education**

- **3 hours**
- A study of the foundations for curriculum development and related educational programs. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education.

**630V Analysis of Research and Literature in Human Movement**

- **3 hours**
- A survey of research and literature in human movement for the purpose of orienting the student to possible areas of research and developing an understanding and appreciation of writings in the field.

**637V Improvement of Instruction in Physical Education**

- **3 hours**
- 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.

**640V Motor Learning and Performance**

- **3 hours**
- 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.

**645V Kinesiological Analysis of Motor Skills**

- **3 hours**
- An investigation of the biomechanical basis of motor performance. Includes a descriptive analysis of fundamental movement forms and an examination of techniques for collecting kinesiological data.

**599 Thesis**

- **1-4 hours**
- **PREREQ:** Permission
- Independent research project written under the supervision of an adviser.
HISTORY (HIST)

Graduate Faculty Members:

Professors Frederick W. Adrian, Paul L. Beck, Jo Ann Carrigan, Ert J. Gum, Roy M. Robbins (Emeritus), A. Stanley Trickett;

Associate Professors: Harl A. Dalstrom (Chairman), Dale A. Gaedert, Richard A. Overfield, William R. Petrowski, William C. Pratt, Jacqueline St. John;

Assistant Professors: Nan L. Britt, Tommy R. Thompson

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.

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.

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:

I. 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. A balance of 15 and 9 hours must be maintained between major and minor areas of study. Seminar study should be divided two and one, depending upon the student's area of concentration.

II. 15 semester hours of approved graduate courses in History including 9 hours of seminars, plus 9 approved hours of graduate course work 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 adviser. In the event that less than 6 hours of credit is assigned the thesis project, it should be noted at least half of the total program must be in courses open only for graduate credit.

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 course work, at least half of which must be earned in courses open only to graduate students (V series).

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 at least six graduate hours. Permission to take a six hour minor may be gained by the adviser'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 chairman of the History Graduate Program Committee of the Department of History, choose his adviser. The chairman of the History Graduate Program Committee shall, after consultation with the student and his adviser, recommend an advisory committee to the Dean for Graduate Studies for official appointment. The advisory committee shall be composed of members of the Faculty appropriate to the student's program and academic interests. The chairman of the advisory committee (and the representatives 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.

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 minor area portion of the examination will be over the specific courses taken for the minor. The major area examination will be of six hours duration (two three-hour segments), and the minor area examination will be of three hours duration.

   b. If the major area of study is American history, the examination will be comprehensive, divided into two three-hour segments, with the breaking point for the two segments normally following the break 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 adviser will be responsible for the minor examination.

3. The reading committee will consist of the sponsor and one other graduate faculty member expert in the major area. The readers for the minor area will be the instructors of the courses offered in the minor. 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 examination 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, certifying the candidate for conferral of the degree.

Course Descriptions

811J American Economic History to 1865 3 hours
- PREREQ: Graduate standing
- A survey of American economic development from colonial times to the end of the Civil War.

812J American Economic History Since 1865 3 hours
- PREREQ: Graduate standing
- A survey of American economic development from the Civil War to the present.

812J American Colonial History 3 hours
- PREREQ: Graduate standing
- A study of the background settlement, and development of the English colonies.

815J The American Frontiers: 1600-1840 3 hours
- PREREQ: Graduate standing
- A study of the frontier systems of the Thirteen Colonies and of Spain and France, and the Westward Movement of the United States to the Mississippi River.

816J The American Frontier: 1840-1900 3 hours
- PREREQ: Hist 612J or permission of instructor
- The Trans-Mississippi West from Spanish and French days to the disappearance of the frontier around 1860.

832J Diplomatic History of the United States to 1900 3 hours
- PREREQ: Graduate standing
- A study of the foreign relations of the United States before 1900.

834J Diplomatic History of the United States Since 1900 3 hours
- PREREQ: Graduate standing
- A study of the foreign relations of the United States since 1900.

841J History of Nebraska 3 hours
- PREREQ: Graduate standing
- From the earliest known records to the present.

844J History of the South 3 hours
- PREREQ: Graduate standing
- Economic, social and political development of the South as a region.

851J Economic History of Europe to 1760 3 hours
- PREREQ: Graduate standing
- A survey of European economic development to 1760.

852J Economic History of Europe Since 1760 3 hours
- PREREQ: Graduate standing
- A survey of European economic development from 1760 to the present.

853J Medieval Europe, 284-1555 3 hours
- PREREQ: Graduate standing
- Establishment and development of the medieval church and of feudal society from the declining years of the Roman Empire to the beginning of the Crusades.

854J Medieval Europe, 1095-1492 3 hours
- PREREQ: Graduate standing
- Religious, social, economic, philosophic and institutional developments of the era extending from the Crusades and the investiture struggle through "the waning of the middle ages."

University of Nebraska at Omaha 75

855J The Age of the Renaissance 3 hours
- PREREQ: Graduate standing
- An introduction to the economic, social, political, religious, and intellectual changes to the principal thinkers, writers, and artists of the period extending roughly from 1300-1550.

864J History of the British Empire and Commonwealth 3 hours
- PREREQ: Graduate standing
- Britain in America, Africa, India and the Pacific. The development of a dependent empire and the transformation of many dependencies to the status of independent members of the Commonwealth of Nations.

891J Topics in History 3 hours
- PREREQ: Graduate standing
- A pro-seminar on selected topics based on a consideration of interpretive historical writings and/or source materials.

891M History of Science to 1700 3 hours
- PREREQ: Graduate standing
- A study of the development of scientific ideas and techniques from antiquity to the beginning of modern science.

892M History of Science Since 1700 3 hours
- PREREQ: Graduate standing
- A survey of the historical and intellectual development of modern science and its relation to technology, society, and social thought.

893M History of Women in the United States 3 hours
- PREREQ: Graduate standing
- Study of women's history from the colonial period to the achievement of suffrage.

891M American Social and Intellectual History to 1865 3 hours
- PREREQ: Graduate standing
- Primarily a non-political approach to American History, this course will examine significant topics in American thought and society.

892M American Social and Intellectual History Since 1865 3 hours
- PREREQ: Graduate standing
- Primarily a non-political approach to American History, this course will examine significant topics in American thought and society.

893M The Revolutionary Era, 1763-1789 3 hours
- PREREQ: Graduate standing
- An analysis of the forces which led to the American Revolution and an examination of some of the problems which arose as a result of the separation from England.

894M Early Federal Period, 1789-1815 3 hours
- PREREQ: Graduate standing
- A study of the growth and development of the American nation during the formative years under the Constitution.

895M The Jacksonian Era 3 hours
- PREREQ: Graduate standing
- An interpretive study of the middle period of American history.

896M Civil War and Reconstruction 3 hours
- PREREQ: Graduate standing
- The background of the conflict, the years of the war and the problems of reshaping the Union in the years that followed.

897M The Emergence of Modern America: 1877-1901 3 hours
- PREREQ: Graduate standing
- 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.

895M Twentieth Century America to 1922 3 hours
- PREREQ: Graduate standing
- 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.

896M Twentieth Century America, 1933 to Present 3 hours
- PREREQ: Graduate standing
- A study of the history of the United States from the election of Franklin D. Roosevelt to the Presidency at the present.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>823M</td>
<td>Ideas in Twentieth Century America</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>An analysis of some of the most important ideas which have had influence in recent America.</td>
</tr>
<tr>
<td>823M</td>
<td>American Constitutional History to 1860</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>A history of constitutional theory and practice in the Continental North American colonies of England and in the United States prior to 1860.</td>
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<tr>
<td>823M</td>
<td>American Constitutional History Since 1860</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>A history of constitutional practice in the United States from 1860 to the present.</td>
</tr>
<tr>
<td>824M</td>
<td>History of American Science</td>
<td>3</td>
<td>PREREQ: Graduate standing</td>
<td>A study of the origins, development, and nature of American science and its impact on society, thought, and government.</td>
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<tr>
<td>824M</td>
<td>American Urban History to 1870</td>
<td>3</td>
<td>PREREQ: Graduate standing</td>
<td>Historical survey of urban development in the United States from the colonial period through the 1860's; urban society, problems, institutions; role of cities in national history; American ambivalence toward cities.</td>
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<tr>
<td>844M</td>
<td>American Urban History Since 1870</td>
<td>3</td>
<td>PREREQ: Graduate standing</td>
<td>American urbanization from 1870's to the present; influence of technology, transportation, industry, immigration; urban politics and reform movements; emergence of metropolitan America and problems of the contemporary super-city.</td>
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<tr>
<td>847M</td>
<td>History of American Medicine and Public Health</td>
<td>3</td>
<td>PREREQ: Graduate standing</td>
<td>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 19th century.</td>
</tr>
<tr>
<td>851M</td>
<td>Intellectual History of Modern Europe: Seventeenth and Eighteenth Centuries</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>A study of European society during the critical years following the Renaissance.</td>
</tr>
<tr>
<td>852M</td>
<td>Intellectual History of Modern Europe: The Revolutionary Age to the Present</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>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.</td>
</tr>
<tr>
<td>853M</td>
<td>The Age of Absolutism</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>The emergence of new power relationships on the European Continent and the religious wars of the sixteenth century with an emphasis upon the political, military, and cultural factors that led to the French hegemony and the secularization of European politics.</td>
</tr>
<tr>
<td>854M</td>
<td>The Age of the Enlightenment</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>A study of the politics, economics, and culture of eighteenth century Europe and of the causes of the French Revolution.</td>
</tr>
<tr>
<td>855M</td>
<td>The French Revolution and Napoleonic Era: 1789-1815</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>A study of Revolutionary France and the Napoleonic Empire as an integral part of the Age of Revolution with emphasis upon its causes, development, and consequences for the ultimate collapse of the Napoleonic Empire and the consequences of such events.</td>
</tr>
<tr>
<td>857M</td>
<td>Nineteenth Century Europe, 1815-1848</td>
<td>(I) 3</td>
<td>PREREQ: Graduate standing</td>
<td>An advanced study of what has happened in Europe since 1815 with a view to exposing the consequences of such events.</td>
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</tbody>
</table>
The following seminars lay stress on individual research on significant problems. Seminar topics for History 810V, History 891V, and History 963 will be stated in sub-titles published in the Graduate Class Schedule. An introduction to bibliography and demonstration of the methods of historical research will be incorporated in each seminar.

**PREREQ:** Graduate standing and permission of instructor

- Each 3 hours

**810V (306) Seminar in American History**

This seminar will be offered at the 600-level when taught by a member of the University of Nebraska system graduate faculty (J. A. Carrigan, H. A. Dalstrom, W. R. Petrowski, W. C. Pratt, and R. M. Robbins).

**891V Seminar in European History**

**940 Seminar in American Economic History to 1865 (also Economics 940)**

(W. R. Petrowski)

**941 Seminar in American Economic History Since 1865 (also Economics 941)**

(W. R. Petrowski)

**943 Seminar in British History**

(A. S. Trickett)

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**HOME ECONOMICS (HOM ECON)**

Associate Dean, Mary Hall

Home Economics graduate offerings at UNO may be used to satisfy, in part, the individual programs which will be determined in consultation with the appropriate graduate committee. It will normally be necessary to take other courses on the Lincoln campus, though additional graduate course offerings from the Lincoln listings will be available in Omaha periodically, dependent upon demand and staff.

**Admission** to a 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 is to be made to Graduate Studies, Lincoln Campus:

- Consultation with a member of the Graduate Committee of the College of Home Economics and the major adviser and with the approval of the UN-L Dean of Graduate Studies. Each department or group of allied departments offering graduate work as a field of specialization has a Graduate Committee of three or more members. Each new graduate student should consult the chairman of the Graduate Committee of this major department for assignment to an adviser. In their respective departments these Graduate Committees have general supervision over the work of candidates for the master's degree. They may give such tests as are necessary in order to determine whether the applicants are adequately prepared for graduate study.

**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 area. These subject matter areas are: Education and Family Resources; Food and Nutrition; 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.

Separate programs leading to the master's degree are also offered by the Department of Food and Nutrition and the Department of Human Development and the Family.

**Food and Nutrition—Candidates for the Master of Science degree in Food and Nutrition 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 Food and Nutrition, 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 minor or at least 18 hours exclusive of freshmen courses in the College of Home Economics Human Development and the Family or the equivalent from Psychology, Education Psychology or Sociology.**

Graduate courses scheduled regularly on Omaha Campus. (Omaha and/or Lincoln faculty)

**FN 540 Food Science II (Food Science or Technology 440 or 441)**

Lecture 2 lab 2 hours

**PREREQ:** FN 541, Organic or Biochemistry or permission of instructor

Chemistry of food; an examination of the objective and subjective methods of evaluation of food quality and characteristics.

**FN 550 Advanced Nutrition**

Lecture 3 hours

**PREREQ:** Biochemistry or permission of instructor

Biochemical and physiological aspects of normal human nutrition.

**FN 552 Nutrition in Health and Disease**

**PREREQ:** FN 550 or permission of instructor

Normal nutrition considered in relation to the deviations which may occur in diseases commonly treated by diet.

**FN 670 Quantity Food and Equipment**

**LAB 3**

**PREREQ:** FN 150, 362 or permission of instructor

Observation and practice in institution food departments. Experience in preparation and service of food, use of equipment, menu planning and food cost accounting.

**FN 871 Quantity Purchasing**

**LECT 2 lab 2 field trips 3**

**PREREQ:** Parallel: FN 470 and Econ 210 or permission of instructor

Purchasing food, furnishings and equipment for institutions, food service and institutions. Field trips to local wholesale markets, equipment houses and institutions.
To obtain the Master of Science degree, the student must:

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

b. Choose mathematics courses which carry a number of 800M or above and at least 18 credit hours which carry a number of 800V or above.

c. Include mathematics courses 811M-812M, 823M-824M, and 827M in his program if he has not had the equivalent as an undergraduate.

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

e. Pass a written comprehensive examination.

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

a. Earn a total of 39 credits in mathematics.

b. Complete a thesis not to exceed 9 semester hours, which may be applied toward the 30-hour total.

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

Course Descriptions

The 800J courses listed are open for graduate credit to students who do not seek an advanced degree in mathematics.

Computer Sciences

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

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

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e. Pass a written comprehensive examination.

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

a. Earn a total of 39 credits in mathematics.

b. Complete a thesis not to exceed 9 semester hours, which may be applied toward the 30-hour total.

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

Course Descriptions

The 800J courses listed are open for graduate credit to students who do not seek an advanced degree in mathematics.
8552 Probability and Statistics I (III) each 3 hours
PREREQ: Math 197. First semester required for second semester enrollment.
Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation and limit theorems, point estimation, testing of statistical hypotheses, confidence intervals, linear models, nonparametric methods.

8553 Probability and Statistics II (III) each 3 hours
PREREQ: Math 197. First semester required for second semester enrollment.
Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation and limit theorems, point estimation, testing of statistical hypotheses, confidence intervals, linear models, nonparametric methods.

8602 Elementary Topology (II) each 3 hours
PREREQ: Math 196 or equivalent mathematical maturity.
Sets and functions, metric spaces, topological spaces, continuous functions and homeomorphisms, connectedness, compactness.

864J Modern Algebra (II) each 3 hours
PREREQ: Math 196 or equivalent mathematical maturity.
Axiomatic systems, finite geometries, modern foundations of Euclidean geometry, hyperbolic and other non-Euclidean geometries, projective geometry.

901M Abstract Algebra (I, II) each 3 hours
PREREQ: Six hours of mathematics numbered 300 or above.
Math 811M required for Math 822M.
An introduction to abstract algebra: congruence relations, groups, fields, linear transformations and matrices.

924M Mathematical Analysis (I, II) each 3 hours
Math 822M required for Math 824M.
Semester I: Limits, continuity, differentiation and integration.
Semester II: Inverse functions, power series, differentiation and integration of functions of several variables.

927M Complex Variables (III) each 3 hours
PREREQ: Math 822M or Advanced Calculus.
Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continuation, representations of analytic functions.

928M Theory of Ordinary Differential Equations (III) each 3 hours
PREREQ: Math 831 (Differential Equations) and Math 832.
Vector spaces, existence and uniqueness theorem, systems of linear equations, and two point boundary problems.

933M Operational Mathematics (III) each 3 hours
PREREQ: Math 317.
Laplace transform and properties, applications, Inversion integral, heat conduction problems, Fourier transforms.

941M Introduction to the Foundations of Mathematics (III) each 3 hours
PREREQ: Graduate classification.
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 the mathematics, recent developments.

951M Theory of Numbers (III) each 3 hours
PREREQ: 3 semesters of college mathematics including 1 year of calculus.
Congruences, quadratic reciprocity, diophantine equations, continued fractions, and prime number distribution.

980M Tensor Analysis (III) each 3 hours
PREREQ: Math 831 or equivalent.
A review of vector analysis, study of bilinear and space tensors, applications to geometry and mechanics.

985V Differential Equations (III) each 3 hours
PREREQ: Math 822 or equivalent.
Linear and nonlinear first order equations, self-adjoint elliptic equations, linear integral equations, eigen-functions, and boundary value problems.

985V Theory of Analytic Functions (III) each 3 hours
PREREQ: Math 822, 841, or 847. 850V needed for 860V.
Complex number, analytic and elementary functions, complex integrals, calculus of residues, entire and meromorphic functions, Normal families, and conformal mappings.

846 V Calculus of Variations (III) each 3 hours
PREREQ: Math 423-424.
An introductory course devoted to the classical theory and problems, such as the Brachistochrone problem and problems in parametric form.

860V Differential Geometry (III) each 3 hours
PREREQ: Math 832 and Math 822.
Differential calculus on manifolds, Lie groups, differential forms, and the geometry of Euclidean space.

862V Introductory Topology (III) each 3 hours
PREREQ: Permission of Instructor, 860V required for 862V.
An introduction to general topology including set theory, topological spaces, continuous maps and homeomorphisms, connectedness, compactness, separation axioms, metric spaces, convergence.

950V Graduate Seminar (I, II) each 1-3 hours
PREREQ: Permission of instructor.
A seminar in mathematics.

999 Thesis (I, II) each 3 hours
PREREQ: Permission of department chairman.

995V Independent Graduate Study (I, II) each 3 hours
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 studied 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 I (I, II) each 3 hours
Vector spaces, linear transformations, theory of a single linear transformation, sets of linear transformations, bilinear forms, Euclidean space, unitary space, products of vector spaces.

923 Theory of Functions of Real Variables (I, II) each 3 hours
PREREQ: Math 822 or Advanced Calculus.
Math 822 needed for Math 924.
The real number system, generalized convergence, continuity, semi-continuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, L^p spaces.

926 Functional Analysis (II) each 3 hours
PREREQ: Math 822.

933 Theory of Functions of Real Variables (II) each 3 hours
PREREQ: Math 822 or Advanced Calculus.
The real number system, generalized convergence, continuity, semi-continuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, L^p space.

The T-designated courses are designed for secondary school teachers. They cannot be counted toward the M.A. or M.S. degree in Mathematics.

601T Topics in Finite Mathematical Structures (I, II) each 3 hours
PREREQ: To have teacher certification or be working toward, or permission of instructor.
Logic and sets, discrete and continuous probability theory, linear algebra, linear programming, stochastic processes.

602T Topics in Geometry and Topology (I, II) each 3 hours
PREREQ: To have teacher certification or be working toward, or permission of instructor.
Selections from the following topics: Riemannian geometry, differential geometry, algebraic topology, topology of the plane, two dimensional manifolds, theory of dimension.
PHYSICS (PHYS)

Graduate Faculty Members:

Professor John G. McMillan (Chairman)
Associate Professors Raymond A. Guenther, John W. Flocken;
Assistant Professor John C. Kashef

Graduate physics courses are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.

Course Descriptions

803J Thermodynamics and Statistical Mechanics
PREREQ: Calculus and Physics 112 or 212
(1 or II) 3 hours
The topics of thermodynamics include various equations of state, first and second laws of thermodynamics, thermodynamic potentials and their uses. In addition, an introduction to classical statistical, Bose-Einstein and Fermi-Dirac statistics as well as transport phenomena is given.

805M Solid State
PREREQ: Calculus and Physics 325 or permission
Behavior of materials in the solid state as concerns Energy Levels, Wave Mechanics, Optical and Electrical Phenomena.

812M Modern Physics
PREREQ: Calculus and Physics 112 and 211
Recent developments concerning the nature of matter, radiation, and space including relativistic effects and the dualistic behavior of particles and waves.

Modern Physics Laboratory

814M Nuclear Physics
PREREQ: Calculus and General Physics 112 or 212
Methodology and principles of nuclear science, artificial and natural radioactive, isotopes, tracer techniques, radiation health physics, reactor theory.

Nuclear Physics Laboratory

85M Quantum Mechanics
PREREQ: Calculus, Physics 225 or permission
In this rigorous introduction to quantum mechanics the student becomes familiar with the methods of Schrödinger'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.

855M Problems in Physics
PREREQ: General Physics and permission of instructor
Individually laboratory and/or library work in some field of energy.

POLITICAL SCIENCE (POL. SCI.)

Graduate Faculty Members:

Professors H. Carl Camp (Chairman), W. C. B. Lambert, Orville D. Menard, David C. Scott, Harry W. Reynolds, Jr., William T. Utle; and
Associate Professors John T. Farr, Bernard D. Kolasa;
Assistant Professors Joong-Gun Chung, James B. Johna, Jim L. Riley

An applicant for admission to the Master of Arts or Master of Science degree program with a major in Political Science must present as a prerequisite a minimum of fifteen undergraduate semester hours of Political Science or their equivalent as determined by the department admission committee.
Master of Arts

Degree Requirements: The course program must include twelve hours of the required thirty hours at the 800V level exclusive of thesis hours. The remaining course hours are elective but must be planned in conference with the student's academic adviser to meet individual interests and needs.

Master of Science

Degree Requirements: For the Master of Science with a major in Political Science, eighteen hours of the required thirty-six hours must be at the 800V level. The remaining hours are elective, but must be planned in conference with the student's academic adviser to meet individual interests and needs.

Course Descriptions

Political Science

603M The Presidency
The rise of the institution from George 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. 3 hours

604M The Legislative Process
A comprehensive study of the legislative process of the Congress and state legislatures. The major emphasis is on legislative institutions, processes and behavior. 3 hours

605M The Judicial Process
This is a course in the administration of justice. It examines the Federal and State courts with respect to their powers, the judicial selection, the bar, and the reform movements in the most basic of all man's objectives, "The pursuit of justice." 3 hours

610M Comparative State Politics
A comparative analysis of the structure and function of American state governments. Institutional aspects will be examined, but primary emphasis will be placed on the policy determination process and the significant variables which pattern this process. 3 hours

612M Public Opinion and Political Behavior
Analysis of the political socialization process as it relates to opinion formulation and participation and the effects of this process on the operation of the political system. 3 hours

614M Constitutional Law I
The first semester of a two-semester course in American Constitutional Law. It seeks to familiarize the student with the background of the American Constitutional system, the nature of the judicial process and the role of the United States Supreme Court in the development of the institutions and powers of the American Federal System. 3 hours

615M Constitutional Law II
The second semester of the American Constitutional Law course. It focuses on the role of the United States Supreme Court in delineating and defining the political and civil rights guaranteed in the United States Constitution. 3 hours

820M International Politics of Asia
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. 3 hours

821M Foreign Policy of the U.S.S.R.
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 policy making, and the relations among members of the Communist bloc also will be considered. 3 hours
804V Seminar in American Government and Politics .......................... 3 hours
PREREQ. Permission of graduate adviser
A thorough analysis of selected aspects of the structure and function of the American political system with emphasis on individual research by the student.

81V Seminar in Public Law ....................................................... 3 hours
PREREQ. Three semester hours in public law or permission of graduate adviser
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 levels. Emphasis will be varied from semester to semester in accordance with the backgrounds and objectives of the students enrolled.

820V Seminar in International Politics ...................................... 3 hours
PREREQ. Graduate standing with permission of instructor and department chairman
An examination of the theoretical frameworks advanced for the systematic study of International Relations, with application to specific problems.

820V Seminar in Political Theory ............................................. 3 hours
PREREQ. Six hours of Political Theory or permission of graduate adviser
Analysis of selected topics in normative, empirical and ideological political theory and their impact upon practitioners of politics.

820V Seminar in Comparative Politics ........................................ 3 hours
PREREQ. Graduate standing with permission of the instructor and department chairman
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.

820V Seminar in Comparative Politics: Emerging Areas ................. 3 hours
PREREQ. Permission of graduate adviser
Research, analysis, and writing on topics of general and particular aspects of the governments, politics, and political problems of emerging nations.

830V Independent Study in Topics on Urbanism ........................... 1 hour per sem. to 3
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.)
Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism.

830V-884V Interdisciplinary Seminar on the Urban Community ........ 3 hours per sem. to 6
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.)
An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus.

850V Readings in Political Science ............................................. 3 hours
PREREQ. Permission of graduate adviser
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 his adviser in the Political Science Department to be capable of pursuing a highly independent course of study.

859 Thesis ............................................................................. 1-6 hours
PREREQ. Permission of graduate adviser
A research project, written under the supervision of a graduate adviser in the department of Political Science, in which the student establishes his capacity to design, conduct, and complete an independent, scholarly investigation. The research topic and the completed project must be approved by the student's departmental committee.
Master of Science

To complete the M.S. with a major in industrial psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate course work in psychology plus 24 hours in psychology plus 12 hours in a related minor field. 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.

Additional required course work 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 his adviser and the department. To meet the graduate studies requirements a student must take at least half of his work in courses which are open only to graduate students.

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, experimental child, and school psychology, and in developmental psychobiology. Students may be considered for admission to a doctoral program if they are doing excellent work toward the M.A. or have completed that degree. 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 his research interests as determined by his Supervisory Committee and the departmental Graduate Committee. Specific requirements as a graduate course work in psychology, and in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.

Special Programs Leading to Certification in School Psychological Services

Psychological Assistant

Students who are pursuing work toward the M.A. or M.S. in educational psychology may simultaneously complete requirements for endorsement in Nebraska as a Psychological Assistant. 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 653V or 654V. Application should be made to the Psychology Department and three letters of recommendation are required. Required courses in this program are: Psychology 831M (or 431), 800V, 853V, 854V, and 897V. Also, one of the following is required: Psychology 859M (459), 855M (455), SPED 806V, or SPED 860M (460). The student must also have had course work in both learning and developmental psychology.

School Psychologist

Students holding Master's degrees may be admitted to do additional work leading to recommendation for certification as a school psychologist if they show promise of ability to succeed beyond the Master's level. Application for such admission must be filed with the Psychology Department, accompanied by a vita including names of three individuals willing to write reference letters. Students who have not been admitted to Graduate Studies for their Master's degree program must also apply to the Director of Admissions and supply two official transcripts of all previous college work and scores for the Graduate Record Examination Aptitude Test and Psychology Test. Before a final decision is made concerning admission, the applicant must be interviewed by the Chairman and one or more members of the Department of Psychology. If the applicant has not completed a Master's program equivalent to that required for the Master of Science in Educational Psychology, he may be required either to take additional graduate courses or to complete successfully a six-hour qualifying examination in general and educational psychology.

A total of 30 semester hours of work beyond the Master's is required for the recommendation. These 30 hours must be taken after the applicant has been accepted into the program and received the Master's degree. No more than three hours of practicum credit may be taken during any one semester. For certification of school psychologists, many states require teaching certification or two years of professional work experience in the schools.

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. It is expected that some of these required courses will have been taken as part of the Master's program (or, in some cases, an undergraduate program). In this event, other course work in psychology or education may be elected to make a total of 30 semester hours. All required courses must be completed, however, even if the total exceeds 30 hours of post-master's work. Since individual students may have widely variant backgrounds, considerable flexibility is allowed in choice of elective courses. However, final decision on the appropriateness of a program rests with the Psychology Department.

I. Required Courses in Psychological Methods

Psychology 831M (or 431) Psychological and Educational Testing
Psychology 890V The Profession of Psychology
Psychology 853V Individual Tests I
Psychology 854V Individual Tests II
Psychology 855V Advanced Educational Psychology
Psychology 958 Personality Assessment
Psychology 975 Topical Seminar in School Psychology (3-9 hours)
Psychology 997 Practicum in School Psychology

One of the following two courses:
Psych 859V Introduction to Therapeutic Techniques with Children
Psych 857V Behavior Modification

One of the following four courses
Psych 855M (or 455) Retardation
Psych 859M (or 459) Psychology of Exceptional Children
SPED 806V Teaching the Exceptional Child
SPED 860M (or 460) Introduction to the Mentally Subnormal Child

II. Required Professional Education Courses

COUN 855V Counseling Practices
EDAD 830V Foundations of Educational Administration and Supervision
SED 830V Emerging School Curriculum

III. Required Supporting Work

One to three courses in basic psychology (outside of the student's area of specialization) and/or one to three courses from Special Education, Counseling and Guidance, or other professional education fields beyond those specifically named as requirements.
Course Descriptions

901M History of Psychology
PREREQ: Permission of instructor
A study through reading and discussion of the significant individual contributors and contributions to the growth of psychology.

903M Psychometrics
PREREQ: Psychology 213, 301, or 362
An exploration of the motivation of organisms including methods, concepts, issues, and theories deriving from historical and contemporary research.

904M Computer Concepts in Psychology and the Behavioral Sciences
PREREQ: Psychology 213 (or equivalent)
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.

906M Environmental Psychology
PREREQ: Psychology 101 or permission
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.

907M Cognitive Processes
PREREQ: Psychology 301 or 394
A study of historical and contemporary research and theory concerned with higher cognitive processes including concept formation, problem solving, creativity, memory, and symbolic behavior.

812M Research Design
PREREQ: Psychology 213 (or equivalent)
A methodological approach to research in the behavioral sciences emphasizing manipulation of psychological variables leading to the control and understanding of psychological phenomena.

814M Nonparametric Statistics
PREREQ: Psychology 213 (or equivalent)
A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in the social behavior sciences.

912M Animal Behavior (Same as Biology 827M)
PREREQ: Psychology 101 and Biology 175 or permission
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.

914M Psychological and Educational Testing
PREREQ: Psychology 102 or 281
The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity.

931M Individual Differences
PREREQ: 9 hours of psychology, including Psychology 101 and Psychology 213 (or equivalent)
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.

943M Psychoanalytic Theories of Personality
PREREQ: Psychology 343 and Psychology 212 (or equivalent)
A course designed to acquaint the student with the Freudian and psychoanalytic viewpoints. Research in anxiety, defense mechanisms, sleep, and dreams is emphasized.

944M Abnormal Psychology
PREREQ: Psychology 343 and Psychology 212 (or equivalent)
A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy, and prognosis of syndromes are considered. A research approach is emphasized.
901V Test and Measurements 3 hours
PREREQ: Psychology 211 (or equivalent)
A study of the theoretical and practical problems related to the development and use of psychological tests covering such topics as measurement, test development, standardization, reliability, validity, and interpretation.

905V Seminar in Communication Theory (Same as Speech 505V) 3 hours
PREREQ: Psychology 211 (or equivalent) or permission of instructor
Analysis of current approaches to the study of communication with emphasis on theoretical models and their application to various professional interests.

901V Advanced Educational Psychology 3 hours
PREREQ: Psychology 351
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.

905V Introduction to Therapeutic Techniques with Children 3 hours
PREREQ: Permission of instructor
The purpose of this course is to become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. Methods of and the research with play therapy are considered.

906V Learning in Children 3 hours
PREREQ: none
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 include will be learning methodology with infants and children, learning in infancy, probability learning, transposition and reversal shift learning, imprinting, habituation and imitation learning.

907V Behavior Modification 3 hours
PREREQ: Psychology 302 and 342, or permission of instructor
A course in the techniques, rationale, and research literature of changing behavior through reinforcement procedures. Particular attention will be paid to children's behavior including retarded children, behavior problems in school, and the behavior of the mentally disturbed.

908V Linguistic and Cognitive Development 3 hours
PREREQ: Psychology 332 (or equivalent) or permission of instructor
An advanced, in-depth study of the theory and research on cognitive and linguistic development from infancy to adolescence.

909V Social and Personality Development 3 hours
PREREQ: none
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.

668V Clinical Child Psychology for School Psychologists 2 hours
PREREQ: Permission (Co-registered with Psychiatry 268 at the University of Nebraska College of Medicine)
An advanced course in child psychology, with emphasis upon diagnostic classification, refinement of approaches and techniques of assessment, and correction of problem behavior in the school-age child.

950V Problems in Psychology 1-6 hours
PREREQ: Written permission of the department May be repeated for up to six hours total credit.
A faculty supervised research project, involving empirical or library work and oral or written reports.

955V Practicum in Industrial Psychology 1-6 hours
PREREQ: Written permission of the department
Faculty-supervised experience in industry or business designed to bridge the gap between the classroom and a job, emphasizing the practical use of previously acquired knowledge in dealing with practical problems.

957V Practicum in Educational Psychology 1-6 hours
PREREQ: Written permission of the department
Faculty-supervised experience in an educational agency designed to acquaint the student with practical problems faced by psychologists who work in an educational setting.

999 Thesis 1-6 hours
Independent research project written under supervision of a faculty committee. May be repeated up to 6 hours.

904 Proseminar: Learning (Newton) 3 hours
PREREQ: Permission of instructor
A comprehensive and intensive coverage of the experimental literature on learning in humans and animals.

905 Advanced Seminar in Learning (Newton) 3 hours
PREREQ: Psychology 301 or 904 or permission of instructor
A course considering theorists who have most directly influenced the contemporary psychology of learning.

910 Proseminar: Analysis of Variance (Millimet, Wikoff) 3 hours
PREREQ: Permission of instructor
A course providing a theoretical and practical understanding of inferential statistics emphasizing the analysis of variance model.

911 Proseminar: Multiple Regression and Factor Analysis (Millimet, Wikoff) 3 hours
PREREQ: Permission of instructor
Advanced problems and techniques of correlation and regression are discussed, including special techniques, methods and problems, multiple correlation, multiple regression, and factor analysis.

921 Proseminar: Perception (Diefenbach) 3 hours
PREREQ: Permission of instructor
A comprehensive and intensive coverage of the experimental literature on perception in humans and animals.

923 Proseminar: Psychological Psychology (Hendricks) 3 hours
PREREQ: Permission of instructor
A systematic study of the psychological processes underlying behavior.

929 Seminar in Developmental Psychology (Hendricks, Meier) 3-6 hours
PREREQ: completion of the psychology proseminar sequence (or equivalent) and permission of instructor
A theoretical and empirical analysis of neuro- and other physiological changes correlated with and contributing to developmental processes in infra-human and human subjects.

930 Seminar in Application of Non-Verbal Communication Theory (Same as Speech 505 & SED 530) 3 hours
PREREQ: Course in research methods or permission of instructor
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.

940 Seminar in Small Group Communication (Same as Speech 540 and Social 540) (J. B. Thibaut) 3 hours
PREREQ: Speech 301V (or equivalent), Psychology 211 (or equivalent) or permission of instructor
Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course.

943 Proseminar: Personality (Pedrini, Millimet) 3 hours
PREREQ: Permission of instructor
A course considering the effects of personality variables on behavior. A historical, theoretical, psychometric, and experimental approach will be emphasized.
PUBLIC ADMINISTRATION (PA)

Graduate Faculty Members:
Professors Harry W. Reynolds, David C. Scott (Chairman)

MASTER OF PUBLIC ADMINISTRATION

This is a professional graduate degree which is designed: (1) to prepare students for careers in the public service—national, state, or local; (2) for research or teaching in this field; (3) for those already in the public service who are seeking professional training.

Administrators are required for a wide variety of governmental programs and students in the M.P.A. program will likely come from widely differing backgrounds. Some may come from current public employment while others may enter with degrees in the social sciences, engineering, business administration, or the humanities.

The general prerequisite for admission to the M.P.A. program is a Bachelor of Arts or Bachelor of Science degree or equivalent.

For a student to be admitted unconditionally to the M.P.A. program he must have completed as prerequisites three semester credits in each of the following: Introduction to Public Administration, Urban Government, accounting, and statistics. In addition, if the student's undergraduate preparation in 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 semester hours of course work are required, plus six hours of internship in a public agency for 8 to 12 months. The internship may be waived and up to six hours credit granted for service in civilian public or semi-public agencies. Requests to waive the internship shall be submitted to a departmental committee for approval. In lieu of the internship in such cases the committee may require additional course work or a thesis.

A core of eight required courses shall be completed plus six credit hours from a specified list of optional courses. The required courses include, but are not necessarily restricted to, Political Science 800V; Public Administration 840M, 841M, 846V, 847V, 848V, 849V, and Economics 856M. The optional courses may be selected from Political Science 883V, 884V; Public Administration 843M, 845M, 846V, 861V, Economics 880M, 816V, 822V, 885V, 886V; and Geography 812M, 890M, 895V. It is possible in exceptional circumstances for up to six credit hours of optional courses to be substituted for certain required courses. Such substitutions require approval of a student’s adviser.

Eighteen hours of the course work must be at the 800V level.

A comprehensive final examination both written and oral is required.

Public Administration

840M Public Budgeting 3 hours
A study of the processes and procedures involved in making budgets for governmental institutions.

841M Public Personnel Management 3 hours
A study of the personnel process in American governmental administra-

The Graduate Bulletin
To pursue degree work in the Department, students must hold a valid secondary teaching certificate. During the first semester of enrollment students must take the Graduate Record Examination including the Advanced Test in Education. To be admitted to candidacy the combined scores on the Verbal, Quantitative, and Advanced GRE Tests must total at least 1200. Students are expected to file their Application for Candidacy before they complete more than 18 hours of graduate work and no more than 18 hours of completed course work may be included in the proposed program of graduate studies.

**Master of Science**

Students seeking the Master of Science Degree with a major in Secondary Education are required to select course work from the five areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. Course names or types included in each area are indicated where appropriate.

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>I. SED Core</td>
<td>Min</td>
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<tr>
<td>SED 835V—Seminar in Secondary Education</td>
<td>6</td>
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<tr>
<td>SED 830V—Emerging School Curriculum</td>
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<tr>
<td>SED 832V—Analysis of Teacher Behavior</td>
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<tr>
<td>II. Research</td>
<td>Min</td>
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<tr>
<td>Research Methods, Statistical Methods, Tests &amp; Measurements</td>
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<tr>
<td>III. Professional Specialization</td>
<td>Min</td>
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<tr>
<td>Improvement of Instruction, Teaching Seminars, Independent Research, Special Studies</td>
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</tr>
<tr>
<td>IV. Related Professional Courses</td>
<td>Min</td>
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<tr>
<td>V. Related Academic Courses</td>
<td>Min</td>
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<td>10</td>
<td>12</td>
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</table>

**Master of Arts**

Students seeking the Master of Arts Degree with a major in Secondary Education are required to select work from the six areas indicated below. Minimum and maximum hours that must be included from each area are indicated when such limits are applicable. Course names or types included in each area are indicated where appropriate.

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<tr>
<td>SED 830V—Emerging School Curriculum</td>
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<tr>
<td>SED 832V—Analysis of Teacher Behavior</td>
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<tr>
<td>II. Research</td>
<td>Min</td>
</tr>
<tr>
<td>Research Methods, Statistical Methods, Tests &amp; Measurements</td>
<td>3</td>
</tr>
<tr>
<td>III. Professional Specialization</td>
<td>Min</td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Seminars, Independent Research, Special Studies</td>
<td>3</td>
</tr>
<tr>
<td>IV. Related Professional Courses</td>
<td>Min</td>
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<tr>
<td>V. Related Academic Courses</td>
<td>Min</td>
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<tr>
<td>12</td>
<td>6</td>
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</table>

*Minimums or maximums are determined by adviser.*
Students who seek the Master of Science Degree must take a written Comprehensive Examination. This examination may not be taken earlier than the semester or summer session in which the last course of the program studies will be completed. Registration for this examination must be made with the Department not later than the end of the seventh week of the semester in which the examination will be taken. If the examination is to be taken during the summer, registration must be completed by the end of the second week of the first summer session.

**Course Descriptions**

**884V Principles of Vocational Education**
- A study of the basic philosophy underlying vocational education and the principles and practices in the various fields.

**885V Vocational Techniques for Vocational Education**
- Reviews responsibilities and techniques of coordination for the vocational teacher-coordinator and/or vocational coordinator, with emphasis on local administration of the part-time cooperative program and analysis of the laws and regulations governing the program.

**890V Special Studies**
- A series of intensive courses especially for teachers in service-scheduled as regular seminars, or workshops, according to purpose.

**891V Research Project**
- Individual or group study and analysis of specific problems in schools.

**892V Practicum Teaching, Community and Junior College**
- The Practicum Experience is intended for graduate students who may desire to become instructors at the Community or Junior College level.

**893V Seminar for Cooperating Teachers**
- A series of seminars especially for cooperating teachers. Discussion of problems, trends, research and evaluation of student teachers and student aids in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.

**894V Seminar in Secondary Education**
- Critical analysis of problems of secondary education. Discussion of research and evaluation of student teachers and student aids in the secondary school. Assessment of kinds of programs and experiences available to pre-service students.

**895V Emerging School Curriculum**
- Designed to provide the student with an understanding of the nature and principles trends in secondary school curriculum developments and practices in curriculum construction. Strong emphasis is placed on and principles trends in curriculum construction.

**896V Analysis of Teacher Behavior**
- 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 understanding-tape equipment is stressed.

**897V Improvement of Instruction of Secondary School Speech**
- Exploration of the implications and contributions of recent methodological and empirical research to instructional improvement in speech. Investigation of the speech process and the contributions of other disciplines to speech instruction.

**898V Improvement of Instruction of Secondary School Foreign Language**
- A course designed especially for the teacher who is interested in the improvement of instruction in Foreign Language. The course will encompass a wide range of opportunities for improvement of instruction in 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 hours Exploration of the implications of recent research in language and linguistic skills for instructional improvement in the teaching of English.

**841V Improvement of Instruction of Secondary School English: Literature**
- 3 hours Exploration of the implications of recent research in the teaching of literature for instructional improvement in the secondary school classroom.

**845V Improvement of Instruction of Secondary Social Studies**
- 3 hours Designed especially for teachers who are interested in the improvement of instruction of the social studies. Will encompass the whole range and empirical techniques for the improvement of social studies instruction. Emphasis will be concentrated on current developments that have implications for the classroom teacher.

**847V Materials Laboratory for the Social Studies**
- This course is designed for social studies teachers with new materials in the Social Studies. Students will develop criteria for the evaluation of materials from recent curriculum projects.

**849V Seminar in Social Studies Curriculum Construction**
- 3 hours This course is designed for social studies supervisors, department chairmen, team leaders and teachers who are interested in learning to design and construct curricula for the social studies.

**850V Improvement of Instruction of Secondary School Mathematics**
- 3 hours This course is designed for those students who wish to extend their knowledge of the secondary school mathematics curriculum and their skill in employing instructional techniques for teaching mathematics. Emphasis is placed upon new curriculum developments and contemporary teaching strategies.

**855V Improvement of Instruction of Secondary School Science**
- 3 hours Designed to develop a deeper and broader understanding of business education; to identify and define business education and examine its past, present, and future role in the total education pattern of our society.

**856V Improvement of Instruction of Secondary School SCBS Biology**
- 3 hours A course designed for biology teachers which reviews the content, history, methods, materials, and philosophical background of SCBS Biology.

**857V Improvement of Instruction of Secondary School SCBS Biology**
- 3 hours A graduate course in science education which reviews the history, content method, materials, and philosophical background of SCBS Biology (Green Version).

**858V Improvement of Instruction of Science, Harvard Project Physics**
- 3 hours A graduate course in science education which reviews the content, method, and philosophical background of Harvard Project Physics.

**859V Improvement of Instruction of Science, Earth Science Curriculum Project**
- 3 hours A graduate course in science education which reviews the content, method, materials, and philosophical background of the Earth Science Curriculum Project.

**865V Science Education Seminar**
- A graduate seminar in K-12 science education emphasizing research, newly developed science curriculum, curriculum planning, science supervisory treatment of one or more localized science education issues.

**870V Improvement of Instruction of Science, Harvard Project Physics**
- A continuation and extension of the concepts considered in SED 880V.

**872V Improvement of Instruction in Science, Earth Science Curriculum Project**
- A continuation and extension of the concepts considered in SED 862V.

**873V Improvement of Instruction in Secondary School Business Education**
- 3 hours A course designed for teachers of business education to provide information, methods, and techniques relative to current practices and trends in business education.
SOCIAL WORK (SW)

Graduate Faculty Members:
Professor Theodore Ernst (Director)

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 man's ability to function meaningfully and effectively in transaction with his environment (i.e., his family, friends, associates, and the community at large). The social worker brings systematized knowledge to bear on his dealings with individuals, in families, in other groups and collective associations, with communities, societies, and organizations with a view to helping in the resolution of problems which cause stress in social transaction.

In these endeavors, social workers are employed in public and private counseling agencies and services, medical settings, schools, residential and community agencies providing care for the mentally ill and retarded, court and correctional agencies, community planning, and development agencies and programs. Their endeavors and interventions are designed to promote more effective functioning of society as it strives 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. The entire program requires a minimum of two full academic years.
2. A minimum of 55 credit hours in graduate social work study, of which:
   (a) Not less than 25 hours of approved courses must have been completed in the University of Nebraska.
   (b) Not less than 14 hours must be in field work.
   (c) All courses must be approved by the School for each individual.
   (d) Five hours may be selected in academic graduate courses outside the Graduate School of Social Work.

3. An approved individual or group research project written in the course of the second-year research seminar, or its equivalent.

The course leading to a Master of Social Work degree normally requires four semesters of full-time study.

There are two types of courses:
1. "Core" courses, which are required of all students.
2. "Effective" courses, chosen by students in addition to required core courses.

The type and credit value of each of the courses is indicated in the course description in this bulletin. Courses offered by the School are subject to change.

The total number of credit units required is a minimum of 55 credit hours; currently they may be distributed as follows:

REQUIREMENTS FOR THE DEGREE OF MASTER OF SOCIAL WORK

<table>
<thead>
<tr>
<th>1st Year Program</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>Social Work Practice I (SW 820)</td>
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<tr>
<td>Practicum I (SW 841)</td>
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<tr>
<td>Human Behavior &amp; Social Environment I (SW 820)</td>
</tr>
<tr>
<td>Social Welfare Policy &amp; Services I (SW 851)</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>Social Work Practice II (SW 831)</td>
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<tr>
<td>Practicum II (SW 842)</td>
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<tr>
<td>Human Behavior &amp; Social Environment II (SW 821)</td>
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<tr>
<td>Social Welfare Policy &amp; Services II (SW 852)</td>
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<tr>
<td>Research Methods in Social Work (SW 883)</td>
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<tr>
<td><strong>2nd Year Program</strong></td>
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<tr>
<td>Micro Intervention I (SW 912)</td>
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<tr>
<td>Practicum III (SW 977A)</td>
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<tr>
<td>Community Planning &amp; Organization (SW 975)</td>
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<tr>
<td>Administration in Social Work (SW 982)</td>
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<tr>
<td>Social Work Practice in Mental Health (SW 924)</td>
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<tr>
<td>Master's Thesis (SW 899)</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>Micro Intervention II (SW 914)</td>
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<tr>
<td>Supervision in Social Work Practice (SW 989)</td>
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<tr>
<td>Research Other than Thesis (SW 960)</td>
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<tr>
<td>Social Work Practice in Child Welfare (SW 912)</td>
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<tr>
<td>Delinquency and Its Treatment (SW 985)</td>
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<tr>
<td>Special Studies in Social Welfare (SW 962)</td>
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<tr>
<td>Master's Thesis (SW 899)</td>
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COURSES OF INSTRUCTION

Human Behavior and the Social Environment—Graduate

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Human Behavior and the Social Environment I (4 cr) (Required)</td>
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<tr>
<td>PREREQ: Graduate standing or permission</td>
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<tr>
<td>A bio-psycho-sociological approach to human development and functioning. Consideration will be given to the interaction of affective, cognitive, social, and physical factors in human development and functioning.</td>
</tr>
<tr>
<td>Human Behavior and the Social Environment II (4 cr) (Required)</td>
</tr>
<tr>
<td>PREREQ: S.W. 850</td>
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<tr>
<td>(Course description the same as above)</td>
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</table>
Social Welfare Policy and Services—Graduate

851 Social Welfare Policy and Services I (2 cr) (Required)
PREREQ: Graduate standing or permission
Traces the development of major social welfare programs and policies in the U.S. Principles and concepts of policy analysis are developed through an examination of the effect and effectiveness of selected social welfare policies and programs, especially those related to income maintenance and the problem of poverty. Special attention is given to the role of social work in assessing and modifying social policy and programs.

852 Social Welfare Policy and Services II (2 cr) (Required)
PREREQ: S.W. 851, Graduate standing
This course builds on S.W. 851 and involves the development of specific criteria for analysis of social welfare policies and service.

Social Work Practice—Graduate

930 Social Work Practice I (4 cr) (Required)
Parallel: S.W. 841 or permission
Consideration is given to professional social work practice and its place within society by study of the history of its development, theoretical knowledge, and its philosophical base. Conceptualization, principles, and theories which undergird its practice are developed plus conscious application of social work theory to specific example derived form social work practice.

931 Social Work Practice II (3-4) (Required)
PREREQ: SW 830 or permission
Consideration of the common base of social work practice with emphasis on the assessment of social situations leading to choice of intervention action from a variety of intervention approaches. The social worker's role as the change agent in this process is developed through continuous application of basic social work practice theory as utilized with individuals, group, organization, and community client systems.

932 Micro Intervention I (3-4 cr) (Required for Micro Concentration)
(Optional for Mezzo Concentration)
PREREQ: SW 830 or permission and concurrent registration in Practicum III
Social work practice with micro-systems—Individuals, families and small groups, and other structures such as parts of families, neighborhood, consultation and planning. Concentration of the focused personal attention and activity essential to the delivery of social services and direct work with the client system. The underlying different modalities of intervention and techniques utilized in them and in the eradication of them.

914 Micro Intervention II (3-4 cr) (Required for Micro Concentration Optional for Mezzo Concentration)
PREREQ: S.W. 831 or permission and concurrent registration in Practicum IV
Use of various micro modalities with emphasis on the influence of settings and social problems and/or conditions on such practice. Practice in institutional, in rural areas, in schools will be among those considered.

915 Social Work Practice in Child Welfare (2-3 cr) (Elective)
PREREQ: SW 831, and SW 840
Consideration of social work practice in child welfare with special emphasis on the range of foster care services from family foster care through institutions.

934 Social Work Practice in Mental Health (2-3 cr) (Elective)
PREREQ: SW 842 or permission
Consideration of the practice of social work in mental health with special emphasis on current trends, principles, and practice.

935 Delinquency and Its Treatment (2 cr) (Elective)
PREREQ: SW 840, 841 or permission
This course places emphasis on juvenile corrections as a system currently developing in the various states of the U.S. Some treatment is given to protective services and neglect independents.

962 Administration in Social Work (2-3 cr) (Required)
PREREQ: Graduate standing and permission
Administration as a process involving the total agency, Governmental and voluntary agencies. Problems encountered in and principles applicable to administration of social welfare services.
SOCIOLOGY (SOC)

Graduate Faculty Members:
Professors George Barger (Chairman), Wayne Wheeler;
Associate Professor John R. Nye;
Assistant Professors William T. Clute, Elaine Hess, Merlin I. Hofstetter,
Mark O. Rousseau, Robert B. Simpson

Applicants for admission to the graduate program in sociology must present a minimum of 15 undergraduate semester hours in sociology including a course in statistics and research methods. Those students lacking either will be required to make up this deficiency during their first year of graduate study.

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 four comprehensive examinations.

Two of these comprehensives—Social Theory, and Methodology and Statistics—are required of all graduate students; the second two remaining examinations are selected by the student, in consultation with his graduate adviser, from a list available through the Sociology Office. The examinations are given a minimum of twice annually, and other times as required. Detailed explanations of graduate requirements should be secured through the Sociology Office.

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

The student is expected to complete Sociology 801V and a minimum of 21 additional graduate semester hours, including at least nine semester hours of 800V-level work. A thesis is required.

Master of Science with a Major in Applied Sociology

A student contemplating this degree is expected to complete Sociology 801V and a minimum of 27 additional graduate semester hours, at least nine of which are from the 800V-level selection. In addition, the student must complete satisfactorily six semester-hour equivalents of a supervised work practicum related to his academic area of concentration, and write an acceptable report on the experience.

Detailed requirements for the M.S. degree with a major in applied sociology should be secured through consultation with the Sociology Office.

Colloquia

Each graduate student in Sociology is required to attend, without credit, the departmental colloquia as scheduled.

Course Descriptions

Anthropology

621M Cultural Anthropology
PREREQ: Graduate standing and permission

University of Nebraska at Omaha

822M North American Archeology
PREREQ: Graduate standing and permission
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.

822M Psycholinguistics
PREREQ: Graduate standing and permission
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.

822M Seminar in Anthropological Problems
PREREQ: Graduate and permission
A course designed to allow students to pursue individual interests in various aspects of anthropology. Work with the instructor in preparation designed to increase the student's depth of knowledge in individual areas.

Sociology

801M Social Control of Behavior
PREREQ: Graduate standing and permission
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."

802M Collective Behavior
PREREQ: Graduate standing and permission
The study of the processes of growth and change within unstable and transitory groups, including crowds and associated phenomena, diffuse collectivities, advertising and propaganda aggregates in mass society, publics, and social movements.

803M Advanced General Sociology
PREREQ: Graduate standing and permission
A survey of the principles of sociology including interaction, groups, institutions, social organization, and change. Consideration is also given to sociological techniques, major specialties, and classes of data.

810M The Community
PREREQ: Graduate standing and permission
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.

811M Applied Social Gerontology
PREREQ: Graduate standing and permission of instructor
An introduction to social gerontology with a special emphasis upon the effects of aging on social institutions and social participation and an examination of practice-oriented implications.

812M Social Psychology (Same as Psychology 852M and Speech 802M)
PREREQ: Graduate standing and permission
A course designed to allow students to pursue individual interests in various aspects of anthropology. Work with the instructor in preparation designed to increase the student's depth of knowledge in individual areas.

Sociology of Deviant Behavior
PREREQ: Graduate standing and permission
A theoretical analysis of the relation of deviant group behavior and subcultures to community standards of conventional behavior as expressed in law and norms.
814M Urban Sociology (Same as Geog. 814M) (I) 3 hours
PREREQ: Graduate standing and permission
A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed.

815M American Family Problems (I, II) 3 hours
PREREQ: Graduate standing and permission
I. A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society. II. An analysis of failures of function and attendant problems in a variety of American families: parent-young adult tension, problems of sexual adjustment, role conflicts, multi-problem families, desertion, divorce, others.

851M The Craft of Sociology (I) 3 hours
PREREQ: Graduate standing and permission
Sociology major seminar integrating prior learning, and covering contemporary sociological theories, research methods, methodology, practical applications, moral implications, various views on professional goals, and technical writing skills. Graduate students will be expected to write their term papers as if they were submitting the papers to a professional journal.

853M Seminar in Cross Cultural Communication (Same as Speech 853M) 3 hours
PREREQ: Admission to graduate study and permission of the instructor
Directed toward understanding the components of cultural and sub-cultural misinterpretation, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations.

852M Sociology of Formal Organizations (III) 3 hours
PREREQ: Graduate standing and permission
Analysis of social structure in formal organizations, processes involved in the integration and disintegration of formal social organizations. An introduction to organizational analysis in medical, military, governmental, educational, and business settings. Implications of large-scale social change in society.

871M Development of Sociological Theory (I) 3 hours
PREREQ: Graduate standing and permission
An intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. Stress is placed on the development of sociology as a science with illustrative materials drawn from the established works of recent decades although background to these is traced to the ancient and medieval antecedents where applicable.

872M Contemporary Sociological Theory (II) 3 hours
PREREQ: Graduate standing and permission
A thorough and detailed presentation of a major theoretical integration of contemporary sociological research and theory with shorter descriptive presentations of alternative positions indicating similarities and differences. Principles of theory construction and a review of major sociological concepts and writers.

875M Social Change (II) 3 hours
PREREQ: Graduate standing and permission
A discussion of the theories and the basic models of social change illustrated by a selection of examples from contemporary sociological perspective. Emphasis is placed upon understanding causes and effects of social processes current in American society and the response of the individual to these.

855M Sociology of Religion (I) 3 hours
PREREQ: Graduate standing and permission
Analysis of religious behavior 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.

895M Independent Study 1-3 hours
PREREQ: Graduate standing and permission
Guided reading in special topics under the supervision of a faculty member.

891V General Seminar in Sociology 3 hours
PREREQ: Graduate standing and permission
This seminar, required of departmental graduate students, gives a basic orientation to the profession, its leading figures, and major institutions, and university departments. It emphasizes critical discussion of issues in the discipline and selected substantive problems of sociology.

895V Seminar in Social Psychology (Same as Psych 895V) 3-6 hours
PREREQ: Graduate standing and permission
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.

810V Seminar in Applications of Sociology 3-6 hours
PREREQ: Graduate standing and permission
Sociological theory and method applied to a practical problem of relevance to general social issues.

811V Social Problems of the Disadvantaged 3 hours
PREREQ: Graduate standing and permission
A survey of the social problems existing in disadvantaged communities. The effects upon individuals of such settings. The subculture of poverty.

812V Seminar in Social Gerontology 3 hours
PREREQ: Graduate standing and permission
An interdisciplinary, developmental study of the impact of aging upon individuals and society, including the subsequent reactions of individuals and society to aging with particular emphasis given to changes during the later half of the life cycle (65-100 years). Both theoretical and programmatic implications of aging research are considered.

855V Seminar in Research Methods 3-6 hours
PREREQ: Graduate standing and permission
A research project carried out under the supervision of the instructor. Particular skills are acquired. Students must be able to contribute to the background work, question formulation, selection of (or construction of) test instruments, data gathering by methods such as interviewing and participant observation, and analysis.

855V Seminar in the Sociology of Religion 3-6 hours
PREREQ: Graduate standing and permission
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.

860V Seminar in Social Organization 3-6 hours
PREREQ: Graduate standing and permission
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.

865V Seminar in Occupations and Professions 3 hours
PREREQ: Graduate standing and permission
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociology selected by the instructor.

870V Seminar in Sociological Theory 3-6 hours
PREREQ: Graduate standing and permission
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.

871V Population Seminar (Same as Geog. 871V) 3 hours
PREREQ: Permission
The signtificance of differences from place to place in the number, kind, and qualities of human inhabitants and changes through time.

* As seminar topics change, these course numbers may be repeated in a student's program without implying duplication.
I. Required Courses

FED 801V Introduction to Research

SPED 853V Advanced Problems

SPED 870V Seminar in Special Education

SPED 846V Speech Evaluation

SPED 848V Advanced Audiology

II. Elective Courses

Students may choose any of the courses in the area numbered 800V or above.

5. Thesis:

Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of his committee.

With a Major in Mental Retardation

The Master of Arts degree with a major in mental retardation is a program primarily designed for persons certified or have near certification in special education. It involves a concentrated course of study designed to improve and advance competencies in the area of mental retardation and to provide investigative approaches to problems associated with children who are mentally retarded. Requirements include:

1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Dean for Graduate Studies and the major adviser.

2. Applicants should hold a teaching certificate in special education or be within 15 credit hours of certification.

3. Students may undergo course work which will lead to:
   a. a major of 24 hours in mental retardation.
   b. a thesis not to exceed six semester hours.
   OR:
   a. a major of 15 semester hours in mental retardation.
   b. a minor of nine semester hours in a related field of interest.
   c. a thesis not to exceed six semester hours.

4. To be admitted as a candidate for the M.A. degree in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.

5. Each candidate will submit a thesis proposal to his committee for approval. A thesis will represent six semester hours in independent study under the direction of the major adviser.

6. Subject to review of the applicants transcripts and related experiences with retarded children, required courses may be selected from the following:

SPECIAL EDUCATION (SPED)

Graduate Faculty Members:

Professors Donald Cushenbery, Aaron Armfield (Chairman), James M. Wood;

Associate Professors James Akers, Roger Harvey, William Callahan;

Assistant Professors Kathleen McKenney, Leonard Cloninger, Kenneth Gilreath;

Graduate Lecturers Craig Fullerton, Edward LaCrosse

Master of Arts

With A Major in Speech Pathology

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

1. Pass an examination to determine adequate personal voice and speech proficiencies and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)

2. Have successfully completed a minimum of twenty-six semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents: SPED 841, Introduction to Communication Disorders; SPED 437, Basic Audiology; SPED 438, Auditory and Speech Mechanisms; SPED 442, Psycholology of Speech; SPED 444, Speech Path II: Rhythm and Symbolization; SPED 443, Speech Path I: Voice and

As seminar topics change, these course numbers may be repeated in a student's program without implying duplication.
a. Required Courses:
   FED 801V Introduction to Research
   SPED 870V Seminar in Special Education
   SPED 872U Practicum in Special Education
   SPED 899 Thesis

b. Elective courses may be chosen from any of the 800V level courses within the major and minor area of study.

Master of Science

Major in Reading

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. Applicants for admission must be eligible for teacher certification at the undergraduate level. Upon successful completion of the program, the student is recommended for K-12 endorsement in reading in Nebraska.

I. Required Courses
   Including work in graduate reading courses (SPED 911, 912, 613V, 814V, 815V, 816V, 817V or 818V or their equivalents)
   18 hours

II. Related Professional Courses
   Including Introduction to Research and selected work in such areas as foundation and general education, elementary education, secondary education, special education, and psychology.
   6 hours

III. Related Cognate Courses
   Including selected work in such areas as guidance and counseling and/or the various subject areas mentioned under sections I and II.
   12 hours

Major in Speech Pathology

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

1. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech. (Administered by the Speech and Hearing Clinic of the University.)

2. Have successfully completed a minimum of thirty-two semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
   SPED 341, Introduction to Communication Disorders; SPED 433, Speech Reading and Auditory Training; SPED 437, Basic Audiology; SPED 438, Auditory and Speech Mechanisms; SPED 442, Psychology of Speech; SPED 443, Speech Pathology I: Voice and Articulation; SPED 444, Speech Pathology II: Rhythm and Symbolization; SPED 445, Phonetics; SPED 450, Speech Correction in the Elementary and Secondary Schools; SPED 451, Basic Practical Speech; 475, Language Development of Exceptional Children.

3. For those students who wish to work toward special state certification in the schools, adviser 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.)

4. Thirty-six hours of course work and practicum. These hours may be taken from the following:

**I. Required Courses**

   SPED 801V, Introduction to Research
   SPED 841V, Advanced Studies in Disorders of Articulation
   SPED 842V, Advanced Studies in Disorders of Voice
   SPED 843V, Advanced Studies in Disorders of Rate and Rhythm
   SPED 844V, Advanced Studies in Disorders of Aphasia and Related Problems
   SPED 851V, Speech Evaluation
   SPED 847V, Neurophysiology
   SPED 849V, Advanced Audiology
   SPED 851V, Advanced Practical Speech
   36 hours

**Elective Courses**

   SPED 845V, Current Practice in Speech Pathology
   SPED 850V, Basic Practical Speech
   SPED 863V, Alaryngeal Speech Rehabilitation
   SPED 867V, Speech Problems of Cerebral Palsied Children
   SPED 849M, Learning Disabilities
   SPED 824M, Teaching of Speech to the Deaf I
   SPED 825M, Teaching of Speech to the Deaf II
   SPED 835M, Teaching of Language to the Deaf I
   SPED 824M, Teaching of Language to the Deaf II

**II. Elective Courses in Related Areas**

   Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, speech, English, and other related areas.

   SPED 870V, Seminar in Special Education
   SPED 872V, Basic Observation and Student Teaching in Special Education
   36 hours

Major in Teaching the Deaf

The Master of Science degree with a major in mental retardation provides broad study investigations for students who wish to improve and expand competency areas necessary for greater individual proficiency in teaching mentally retarded children. State certification in EMH and TMH teaching are also available through this program. The following program requirements must be fulfilled:

1. Applicants to the M.S. degree with a major in Mental Retardation must be approved by the Dean for Graduate Studies and the Major adviser.

2. Applicants should hold a valid teaching certificate. Those not holding teaching certificates will be required to take preparatory courses in teacher education (the number of courses to be taken will be subject to a review of the applicant's transcripts and his/her related experiences in teaching children).

* Student is responsible for prerequisites in all elective areas.
** Substitutions possible where student has taken equivalent courses on the undergraduate or graduate level.
3. To be admitted as a candidate for an M.S. degree with a major in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.

4. Each candidate, having successfully completed thirty hours of course work and practicum, and enrolled for their last six hours, will be required to pass a final written and/or oral examination prior to his/her being recommended for the M.S. degree with a major in Mental Retardation.

5. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

I. Required Courses: 30 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FED 801V</td>
<td>Introduction to Research</td>
</tr>
<tr>
<td>SPED 806V</td>
<td>Interdisciplinary Approaches to Developmental Disabilities</td>
</tr>
<tr>
<td>SPED 806M</td>
<td>Introduction of the Mentally Subnormal Child</td>
</tr>
<tr>
<td>SPED 855M</td>
<td>Curriculum Planning for the Developmentally Disabled</td>
</tr>
<tr>
<td>SPED 864V</td>
<td>Theoretical Approaches for Teaching the Developmentally Disabled Child</td>
</tr>
<tr>
<td>SPED 865M</td>
<td>Methods and Materials for Teaching Mentally Retarded</td>
</tr>
<tr>
<td>SPED 872V</td>
<td>Basic Observation and Student Teaching</td>
</tr>
<tr>
<td>SPED 873V</td>
<td>Seminar in Special Education</td>
</tr>
<tr>
<td>SPED 870V</td>
<td>Introduction to Speech and Hearing Disorder</td>
</tr>
<tr>
<td>SPED 875M</td>
<td>Language Development of Exceptional Children</td>
</tr>
<tr>
<td>Psych 822V</td>
<td>Diagnosis of Learning Disabilities</td>
</tr>
<tr>
<td>Psych 821V</td>
<td>Testing and Measurement</td>
</tr>
</tbody>
</table>

II. Electives: 6 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 840M</td>
<td>Learning Disabilities</td>
</tr>
<tr>
<td>SPED 850M</td>
<td>Emotional Development</td>
</tr>
<tr>
<td>SPED 855M</td>
<td>Introduction to the Physically Handicapped</td>
</tr>
<tr>
<td>SPED 865V</td>
<td>Vocational Training of the Mentally Retarded</td>
</tr>
<tr>
<td>SPED 881V</td>
<td>Classroom Resources for the Mentally Retarded</td>
</tr>
<tr>
<td>SPED 871V</td>
<td>Parent-Professional Relationship in Special Education</td>
</tr>
<tr>
<td>SPED 890V</td>
<td>Administration and Supervision of Special Education</td>
</tr>
</tbody>
</table>

**Major in Teaching the Emotionally Disturbed**

**II. Electives**: 15 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 871V</td>
<td>Parent-Professional Relationship in Special Education</td>
</tr>
<tr>
<td>SPED 890M</td>
<td>Clinical Observation of the Multi-Handicapped</td>
</tr>
<tr>
<td>Psych 845M</td>
<td>Personality Theories</td>
</tr>
<tr>
<td>Psych 851V</td>
<td>Advanced Educational Psychology</td>
</tr>
<tr>
<td>Psych 857V</td>
<td>Behavior Modification (NPI)</td>
</tr>
<tr>
<td>NPI 481</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>NPI 452</td>
<td>Group Dynamics</td>
</tr>
</tbody>
</table>

**The Master of Science degree with a major in teaching the emotionally disturbed includes courses that lead to certification. Prerequisites include a course in child development and state certification in at least one teaching field. The number of candidates for the degree will be restricted.**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>645M</td>
<td>Phonetics</td>
<td>(I, S) 3</td>
<td>Introduction to International Phonetic Alphabet; analysis of phonetic and phonemic elements in major American English dialects; practice in transcription of standard and defective speech.</td>
</tr>
<tr>
<td>650M</td>
<td>Speech Correction in the Elementary and Secondary Schools</td>
<td>(I) 3</td>
<td>PREREQ: Graduate Standing and 6 hours Speech Pathology courses. Speech correction programs as related to goals of public education for school-age children; role and responsibilities of the speech clinician; current practices in evaluation, case load selection and scheduling; special emphasis on methods and materials appropriate to a variety of facilities.</td>
</tr>
<tr>
<td>651M</td>
<td>Basic Clinical Practicum in Speech Pathology</td>
<td>(I, II, S) 3</td>
<td>PREREQ: Graduate Standing and permission. Minimum of 45-60 clock hours per credit hour; supervised observation and practice in speech and hearing center; diagnostic interviews, therapy sessions, lesson plans, weekly practicum summaries.</td>
</tr>
<tr>
<td>656M</td>
<td>Introduction to The Mentally Subnormal Child</td>
<td>(I, II, S) 3</td>
<td>Nature and educational needs of children and youth who are mentally subnormal; definitions; prevalence and types of children in educational programs; history; trends.</td>
</tr>
<tr>
<td>659M</td>
<td>Curriculum Planning for the Disabled</td>
<td>(I, II, S) 3</td>
<td>PREREQ: SPED 850M and 460 and working experience with handicapped children. A modular course that deals with the development of skills necessary to develop a curriculum for disabled children and/or adults.</td>
</tr>
<tr>
<td>660M</td>
<td>Methods and Materials for Teaching the Mentally Retarded</td>
<td>(I, II, S) 3</td>
<td>The retarded child as he relates to a variety of educational processes designed for his learning needs; methodology and teaching materials. Practice in the design and implementation of curriculum units, preschool through vocational; consideration of programs for the trainable and educable programs.</td>
</tr>
<tr>
<td>670M</td>
<td>Introduction to Teaching the Gifted</td>
<td>(S) 3</td>
<td>Introduction to techniques and materials for identifying and helping to understand the specific development needs of gifted pupils and guidance services appropriate for them; understand types of learning tasks and how to evaluate achievement with them; analysis of timed demonstration appropriate to the specific needs of gifted pupils.</td>
</tr>
<tr>
<td>675M</td>
<td>Language Development of Exceptional Children</td>
<td>(I) 3</td>
<td>This course is designed to cover a brief history of linguistic science; an investigation of the language development of children; a discussion of the various problems involved in language acquisition among exceptional children; and the various methodological techniques of teaching language to exceptional children.</td>
</tr>
<tr>
<td>680M</td>
<td>Emotional Development of Children and Youth</td>
<td>(I, S) 3</td>
<td>An introductory study of emotional maturation of children and youth with attention to the symptoms and causes of emotional deviation, and the means of improvement.</td>
</tr>
<tr>
<td>801M</td>
<td>Classroom Techniques for Behavior Control</td>
<td>3</td>
<td>PREREQ: Graduate standing. This course explores the various theories on behavior modification and discusses the application of these theories to the classroom. It is particularly appropriate for those teachers who teach a class for the emotionally disturbed or have a number of behavioral problems in their classes.</td>
</tr>
<tr>
<td>805M</td>
<td>Introduction to the Education of the Physically Handicapped</td>
<td>(I) 3</td>
<td>Nature and educational needs of children and youth who are physically handicapped; definitions; prevalence and types of children in educational programs; history; trends.</td>
</tr>
<tr>
<td>806M</td>
<td>Clinical Observation of the Multi-Handicapped</td>
<td>(I) 3</td>
<td>To familiarize students with the multi-disciplinary team approach to treatment of handicapped children in the clinical setting.</td>
</tr>
<tr>
<td>809V</td>
<td>Special Projects</td>
<td>(I, II, S) 1, 2 or 3</td>
<td>A series of intensive courses especially for teachers in-service scheduled as regular seminars, or workshops, according to purpose.</td>
</tr>
<tr>
<td>865V</td>
<td>Interdisciplinary Approaches to Developmental Disabilities</td>
<td>3</td>
<td>PREREQ: Required course for all Special Ed. majors. This is an introductory course dealing with the various developmental programs as viewed by different disciplines at Meyer Children's Rehabilitation Institute. The different disciplines will come in and present an overview of their role in working with the developmentally disabled child.</td>
</tr>
<tr>
<td>867V</td>
<td>Introduction to Speech and Hearing Disorders</td>
<td>(II) 3</td>
<td>A survey of the disorders of speech, hearing and language; normal development of communication skills; the professions involved in the rehabilitation of the communicatively impaired individual.</td>
</tr>
<tr>
<td>869V</td>
<td>Research Projects</td>
<td>(I, II, S) 3</td>
<td>Individual or group study and analysis of specific problems in schools.</td>
</tr>
<tr>
<td>873V</td>
<td>Diagnostic and Remedial Instruction in Reading</td>
<td>(I, II) 3</td>
<td>A course for advanced students in reading which will provide the student with the essential information for the diagnosis and remediation of reading disabilities.</td>
</tr>
<tr>
<td>875V</td>
<td>Measurement and Evaluation of Reading</td>
<td>(I, II, S) 3</td>
<td>A course for advanced students in reading which will provide the student with the necessary training for establishing and operating a reading center (i.e., initiating and accepting referrals, forming evaluation schedules, administering appropriate evaluative devices, writing case reports, and establishing follow-up sessions).</td>
</tr>
<tr>
<td>881V</td>
<td>Clinical Practice in Reading</td>
<td>(I, II, S) 3</td>
<td>PREREQ: SPED 850M. Permission. 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.</td>
</tr>
<tr>
<td>884V</td>
<td>Advanced Studies in the Disorders of Speech Articulation</td>
<td>(I) 3</td>
<td>PREREQ: SPED 850M. Types and causes of articulation disorders; rationale for case selection; special emphasis on rehabilitation procedures associated with individual involvement; practicum.</td>
</tr>
<tr>
<td>885V</td>
<td>Advanced Studies in the Disordorn of Voice</td>
<td>(I) 3</td>
<td>PREREQ: SPED 850M. Types and causes of voice disorders; rationale for case selection; special emphasis on rehabilitation procedures associated with individual involvement; practicum.</td>
</tr>
<tr>
<td>886V</td>
<td>Advanced Studies in the Disorders of Rate and Rhythm</td>
<td>(II) 3</td>
<td>PREREQ: SPED 850M. Types and causes of rate, rhythm and stress pattern disorders; rationale for case selection; survey of stuttering theories and therapies; special emphasis on rehabilitation procedures associated with individual involvement; practicum.</td>
</tr>
<tr>
<td>887V</td>
<td>Advanced Studies in the Disorders of Aphasial and Related Problems</td>
<td>(II) 3</td>
<td>PREREQ: SPED 850M. Types and causes of language symbolization disorders; rationale for case selection; childhood aphasia and autism; special emphasis on rehabilitation procedures associated with individual involvement; practicum.</td>
</tr>
<tr>
<td>888V</td>
<td>Current Practices in Speech Pathology</td>
<td>3</td>
<td>PREREQ: Required course for all Special Ed. majors. 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.</td>
</tr>
<tr>
<td>889V</td>
<td>Speech Evaluation: Methods and Practicum</td>
<td>(I) 3</td>
<td>PREREQ: Graduate Standing and 6 hours Speech Pathology. 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.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>048V</td>
<td>Neurophysiology of Speech</td>
<td>(I) 3 hours</td>
<td>Basic structure and function of the organs of hearing and speech; theories of cortical involvements, central and peripheral nervous systems as they affect communication; individual projects.</td>
</tr>
<tr>
<td>048V</td>
<td>Advanced Audiology</td>
<td>(II) 3 hours</td>
<td>PREREQ: 45 and Graduate Standing Audiological assessment of hearing loss including case history, specialized audiometric testing, and counseling of clients, new and experimental principles and procedures for selection and use of auditory amplification prostheses; industrial audiology and medicolegal problems discussed.</td>
</tr>
<tr>
<td>055V</td>
<td>Advanced Clinical Practicum in Speech Pathology</td>
<td>(I, II, S) 3 hours</td>
<td>PREREQ: 45 and Graduate Standing 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 practice an opportunity to get this experience before being placed in a setting away from the University.</td>
</tr>
<tr>
<td>055V</td>
<td>Advanced Clinical Practicum in Speech Pathology</td>
<td>(I, II, S) 3 hours</td>
<td>PREREQ: 45 and Graduate Standing This course provides the student with an &quot;externship&quot; experience for clinical practicum in either a school or a medical setting. A minimum of 45 clock hours of work is required for each credit hour per semester.</td>
</tr>
<tr>
<td>055V</td>
<td>Advanced Problems in Speech Pathology</td>
<td>(II) 3 hours</td>
<td>PREREQ: Twenty-four hours Speech Pathology and Graduate Standing Students search and investigate three different areas of 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, and clinical demonstrations of selected voice, speech, and language problems.</td>
</tr>
<tr>
<td>055V</td>
<td>Advanced Clinical Practicum in Speech Pathology</td>
<td>(I, II, S) 3 hours</td>
<td>PREREQ: 45 and Graduate Standing This course provides the student with an &quot;externship&quot; experience for clinical practicum in either a school or a medical setting. A minimum of 45 clock hours of work is required for each credit hour per semester.</td>
</tr>
<tr>
<td>066V</td>
<td>Vocational Training for the Mentally Retarded</td>
<td>(I, II, S) 3 hours</td>
<td>PREREQ: 055V Alaryngeal Speech Rehabilitation [066V Vocational Training for the Mentally Retarded (I, II, S) 3 hours ] PREREQ: 055V Advanced Problems in Speech Pathology Consideration of the following aspects: history and background of vocational training (adjustment); a brief description of the MR; a look at per capita involvement in the vocational adjustment of the MR; an examination of the programs offered at the EMR academic level; a comparison of program prototypes; a rationale and evaluation of vocational adjustment programs; a working arrangement with the MR client; the consideration of the future of the MR in the world of work; related topics to the field; methods and materials available.</td>
</tr>
<tr>
<td>067V</td>
<td>Community Services for the Mentally Retarded</td>
<td>3 hours</td>
<td>The student will be introduced to community and regional resources which provide service according to the needs of the developmentally disabled. These resources will constitute activity centers, shelter workshops, diagnostic clinics, recreational facilities, foster care programs, residential centers, and others. From these sources will come the expertise in informing the student of program goals, and objectives activities manpower needs and involvement, coordination with related programs, administration of services, financing of services, and priority settings.</td>
</tr>
<tr>
<td>070V</td>
<td>Seminar in Special Education</td>
<td>(I, II, S) 3 hours</td>
<td>PREREQ: Graduate course primarily for Special Education majors and professional workers in the fields of speech and hearing, teaching the mentally retarded, remedial reading and teaching the physically handicapped. Familiarity with philosophy, major literature and procedures in each area; student will research and present material reflecting his personal professional interests, discussions, forums, and panels; visiting experts.</td>
</tr>
<tr>
<td>071V</td>
<td>Parent-Professional Relationships in Special Education</td>
<td>(I) 3 hours</td>
<td>PREREQ: 066V Professionals dealing with handicapped children became aware that a child's handicap affects the family unit and the community. Conversely, the family and the community influences the child's adjustment to his handicap. This course deals with the development of positive relationships between parents and professionals.</td>
</tr>
<tr>
<td>072V</td>
<td>Basic Observation and Student Teaching in Special Education</td>
<td>(I, II, S) 3 or 5 hours</td>
<td>PREREQ: 067V 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.</td>
</tr>
<tr>
<td>073V</td>
<td>Advanced Observation and Student Teaching in Special Education</td>
<td>(I, II, S) 3 or 5 hours</td>
<td>PREREQ: 072V 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.</td>
</tr>
<tr>
<td>075V</td>
<td>Methods and Materials for Teaching the Physically Handicapped</td>
<td>(II) 3 hours</td>
<td>PREREQ: 073V This course deals with the different disciplines used at the Medical Center; writing 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.</td>
</tr>
<tr>
<td>075V</td>
<td>Diagnostic and Remediation Techniques in Early Childhood Education for the Disabled</td>
<td>(II) 3 hours</td>
<td>PREREQ: 073V This course deals with the different disciplines used at the Medical Center; writing 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.</td>
</tr>
<tr>
<td>075V</td>
<td>Diagnosis of Learning Disability</td>
<td>(I, S) 3 hours</td>
<td>PREREQ: 073V Classroom experience with exceptional children for graduate students who have had other professional experiences. Special Education teachers are often required to interpret the results of evaluations developed through the use of testing. This course familiarizes the student with the various techniques used for diagnosing or evaluating learning problems.</td>
</tr>
<tr>
<td>075V</td>
<td>Clinical Teaching in Learning Disabilities</td>
<td>3 hours</td>
<td>PREREQ: 073V Classroom experience with exceptional children for graduate students who have had other professional experiences. Special Education teachers are often required to interpret the results of evaluations developed through the use of testing. This course familiarizes the student with the various techniques used for diagnosing or evaluating learning problems.</td>
</tr>
<tr>
<td>087V</td>
<td>Menialy Related</td>
<td>(I, S) 3 hours</td>
<td>PREREQ: 075V Classroom experience with exceptional children for graduate students who have had other professional experiences. Special Education teachers are often required to interpret the results of evaluations developed through the use of testing. This course familiarizes the student with the various techniques used for diagnosing or evaluating learning problems.</td>
</tr>
<tr>
<td>089V</td>
<td>Thesis</td>
<td>(I, II, S) 3-6 hours</td>
<td>PREREQ: 087V Required of all students taking Master of Arts degree, see major advisor for information.</td>
</tr>
</tbody>
</table>
Basic Practicum in Special Education
(PREREQ: Master's Degree and acceptance in the Ed Spec Program)
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.

Advanced Practicum in Special Education
(PREREQ: 872U)
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.

Administration and Supervision of Special Education
(PREREQ: Ed. 801V, Ed. Ad. 802V, and Ed. Ad. 803V and Admission to the Education Specialist Program)
This course provides a concentrated experience in dealing with specific problems in the administration and supervision of special education. The "case study" method will be utilized to develop a systematic approach to problem solving. Real and hypothetical cases will be presented.

Problems of Teaching Reading-Elementary
(PREREQ: Graduate Bulletin)
An advanced course for elementary and secondary teachers in the principles, practices, and use of instructional materials in the area of reading at the elementary level (Cushenbery)

Problems of Teaching Reading-Secondary
(PREREQ: Graduate Bulletin)
An advanced course for reading for elementary or secondary teachers. Major emphasis will be given to the administration, organization, evaluation of methods and materials for the teaching of reading in each of the content subjects at junior and senior high school levels. (Cushenbery)

Seminar in Organization and Administration of Reading Problems
(PREREQ: One graduate course, (or equivalent) and permission of instructor)
Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and 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. (Cushenbery)

Seminar in Research in Reading
(PREREQ: Graduate Bulletin)
A course for advanced 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. (Cushenbery)

SPEECH (SPCH)

Graduate Faculty Members:
Professors John K. Brilhart, Elton S. Carter;
Assistant Professor Dennis A. Fus, E. Grant Masland, Mary E. Williamson.

Master of Arts
An applicant for graduate study in Speech (Interpersonal Communication, or Theatre) must present a minimum of 15 undergraduate semester hours in appropriate courses in communication arts and sciences beyond the introductory course, including advanced work in the area in which he intends to concentrate his graduate program. Deficiencies must be made up during the first year of graduate study.

UNIVERSITY OF NEBRASKA AT OMAHA
981M Persuasion
PREREQ: Speech 101 and 3 hours psychology or sociology or permission
Basic principles and psychological processes underlying persuasive communication; a review of various source, message, channel, and receiver variables and their influence on persuasive communication effectiveness.

982M Psycholinguistics
(Same as Psychology 852M and ANTH 852M)
PREREQ: Senior or graduate standing in Psychology or Speech or permission.
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.

983M Seminar in Cross Cultural Communication
PREREQ: Admission to graduate study and permission of the instructor
Directed towards understanding the components of cultural and subcultural communication, with the purpose of bringing to awareness those factors which disturb communication in cross-cultural situations. (Cross-listed as Soc. 853M)

986M Directing Forensics
PREREQ: Speech 112 or permission
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.

981V Introduction to Research in Speech
Basic components, functions, and spirit of research; research methods in the arts and sciences of oral communication; preparation of a thesis proposal.

982V Seminar in Oral Communication
PREREQ: Permission of the instructor
Studies in figures, movements and institutions prominent in modern public address. May be repeated.

983V College Debate Workshop
PREREQ: Graduate standing and permission
A comprehensive analysis of the current intercollegiate debate proposition. Also stresses methods of coaching debate and debate tournament structure at the college level. Students taking this course may not also receive credit for Speech 862M, "Directing Forensics," toward a degree at UNO.

985V Seminar in Broadcasting
PREREQ: Graduate standing and permission
Substantive study into specialized areas and modes of broadcasting. Content will vary according to the individual semester being offered. Course may be repeated.

987V Seminar in Communication Theory
PREREQ: Basic Statistics or permission of instructor
Analysis of current approaches to the study of communication, with emphasis on theoretical models and their application to various professional interests. (Same as Psychology 859V)

987V Seminar in Electronic Media and U.S. Society: 1950-1970 (Same as Psychology 859V)
PREREQ: Graduate standing

989 Thesis
Independent research project written under the supervision of an adviser.

989 Seminar in Small Group Communication
(Same as Sociology 545 and Psychology 540)
PREREQ: Speech 801V or equivalent, or basic statistics, or permission of the instructor
Research and theory in the processes of small group communication and leadership; research procedures; approaches to teaching a discussion course. (Jr/Sr)

985 Seminar in Applications of Non-Verbal Communication Theory
PREREQ: Course in research methods or permission of instructor
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.

URBAN STUDIES (US)

Graduate Faculty Members:
Professor David A. Peterson;
Associate Professor Robert P. McCune (Chairman).

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 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 course work are required. A core of six required courses shall be completed, plus nine credit hours must be taken from one of three areas of concentration. The required courses include: Urban Studies 883V, 884V, 881V, 882V; Sociology 851M; and History 844M or 845M. Courses applicable to the area of concentration may include, but are not necessarily restricted to, Political Science 892M, 893M, 880V; Public Administration 840V, 842V, 844V, 846V, 848V; Geography 881V; Psychology 891; Sociology 810M, 811M, 875M, 880M, 880M, 811M; Gerontology 810M, 820M; Counseling 888M, 822V, 827V. A maximum of nine hours of optional credit may be selected from Economics 885V, 886V, 887V, 888V; History 853V, 811M; Geography 881V, 812M; or many of the courses listed above.

Eighteen hours of the course work must be at the 800V level.

A comprehensive final examination both written and oral is required, although a thesis is not required.

Urban Studies

891V The Metropolis as a Public Economy
The integration of politics and economics in the metropolitan system as they affect metropolitan policy-making is discussed. Significant metropolitan problems such as poverty, transportation, housing, crime, education, and the environment will be analyzed.
THE UNIVERSITY OF NEBRASKA AT OMAHA

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1974-75

ROBERT L. ACKERMAN. Elementary and Early Childhood Education
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<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA WRENCE E. EHLERS</td>
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</tr>
<tr>
<td>KENNETH A. DEFFENBACHER</td>
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</tr>
<tr>
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<tr>
<td>BARTHOLOMEW DENNEHY</td>
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<td>Civil Engineering</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<tr>
<td>WILLIAM L. GAINES</td>
<td>Interim Dean of International Affairs</td>
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<td>Department Director of Special Programs and</td>
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<td>MARGARET GESSAMAN (GF)</td>
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<tr>
<td>RICHARD E. GIBSON</td>
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<tr>
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<td>ROBERT J. GRANDGENETT</td>
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<tr>
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<tr>
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<td>Ph.D., State University of Iowa, 1953</td>
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<tr>
<td>ROGER R. HARVEY</td>
<td>Ph.D., East Texas State University, 1970</td>
<td>Special Education</td>
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<tr>
<td>SHELTON HENDRICKS</td>
<td>Ph.D., Tulane University, 1997</td>
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<tr>
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<td>Sociology</td>
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<tr>
<td>WAYNE M. HIGLEY</td>
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</tr>
<tr>
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</tr>
<tr>
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Ph.D., University of Nebraska-Lincoln, 1968; Associate Professor

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Ph.D., University of Utah, 1967; Associate Professor

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Ph.D., University of Washington, 1967; Associate Professor

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Ph.D., University of Maryland, 1972; Assistant Professor
INDEX

Absences from class ........................................ 18-19
Accredited standing ........................................ 9
Administrative officers ................................. 125
Admission Test for Graduate Study in Business ......... 12
Admission to Graduate Study .............................. 13-14
Unconditional ............................................. 13
Provisional ................................................ 13
Non-degree ................................................. 13-14
Admission to Teacher Education Programs ............... 14
Applications:
  For Admission to Graduate Study ...................... 11
  For Candidacy for the Degree ......................... 15
  For Degree ............................................. 15
Assistantships, graduate .................................. 19
Audit ....................................................... 25
Beta Gamma Sigma, National Business Honorary ..... 25
Board of Regents ......................................... 125
Calendar for 1974-75 .................................... 4-7
Campus Map ................................................. 138
Candidacy for degree .................................... 15
Center for Urban Education .............................. 27
Certificate, teacher ....................................... 14
  Administrative .......................................... 50
School Psychologist ...................................... 90
Class Attendance ......................................... 18
Commencement exercises (consult calendar) .......... 4-7
Comprehensive examinations ............................ 15
Courses for graduate credit ............................. 10
Degree programs .......................................... 10
Departments offering graduate instruction
  Art ......................................................... 28
  Biology ................................................. 28
  Business Administration .............................. 32
  Chemistry .............................................. 35
  Civil Engineering ..................................... 37
  Counseling and Guidance ............................ 41
  Dramatic Arts ......................................... 47
  Economics .............................................. 45
  Educational Administration and Supervision ....... 50
  Educational Foundations ............................ 55
### INDEX—Continued

<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary and Early Childhood Education</td>
<td>58</td>
</tr>
<tr>
<td>English</td>
<td>59</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>62</td>
</tr>
<tr>
<td>Geography and Geology</td>
<td>65</td>
</tr>
<tr>
<td>Gerontology</td>
<td>69</td>
</tr>
<tr>
<td>Health, Physical Education and Recreation</td>
<td>69</td>
</tr>
<tr>
<td>History</td>
<td>72</td>
</tr>
<tr>
<td>Home Economics</td>
<td>78</td>
</tr>
<tr>
<td>Journalism</td>
<td>80</td>
</tr>
<tr>
<td>Mathematics</td>
<td>80</td>
</tr>
<tr>
<td>Political Science</td>
<td>85</td>
</tr>
<tr>
<td>Psychology</td>
<td>89</td>
</tr>
<tr>
<td>Public Administration</td>
<td>97</td>
</tr>
<tr>
<td>Secondary/Post-Secondary Education</td>
<td>98</td>
</tr>
<tr>
<td>Social Work</td>
<td>102</td>
</tr>
<tr>
<td>Sociology</td>
<td>106</td>
</tr>
<tr>
<td>Special Education</td>
<td>110</td>
</tr>
<tr>
<td>Speech</td>
<td>120</td>
</tr>
<tr>
<td>Urban Studies</td>
<td>123</td>
</tr>
<tr>
<td>Examinations for Graduate Students</td>
<td></td>
</tr>
<tr>
<td>Graduate Record Examination</td>
<td>12</td>
</tr>
<tr>
<td>Admission Test for Graduate Study in Business</td>
<td>12</td>
</tr>
<tr>
<td>The Test of English as a Foreign Language</td>
<td>13</td>
</tr>
<tr>
<td>Faculty, Graduate</td>
<td>126-134</td>
</tr>
<tr>
<td>Faculty Senate Research Committee</td>
<td>26</td>
</tr>
<tr>
<td>Fees</td>
<td>21-24</td>
</tr>
<tr>
<td>Grades, standard of</td>
<td>18</td>
</tr>
<tr>
<td>Graduate Assistantship</td>
<td>25</td>
</tr>
<tr>
<td>Graduate Council</td>
<td>26</td>
</tr>
<tr>
<td>Graduate Program Committees</td>
<td>26</td>
</tr>
<tr>
<td>Graduate Record Examination</td>
<td>12</td>
</tr>
<tr>
<td>Graduate Studies</td>
<td></td>
</tr>
<tr>
<td>History and Purpose</td>
<td>9</td>
</tr>
<tr>
<td>Graduate Council</td>
<td>26</td>
</tr>
<tr>
<td>Graduate Faculty</td>
<td>26, 126-134</td>
</tr>
<tr>
<td>Late Registration (consult calendar)</td>
<td>4-7</td>
</tr>
<tr>
<td>Load, study</td>
<td>19</td>
</tr>
<tr>
<td>Loans</td>
<td>25</td>
</tr>
<tr>
<td>Master of Arts Degree</td>
<td>10</td>
</tr>
</tbody>
</table>