1981

Graduate Academic Catalog (1981-1982)

University of Nebraska at Omaha

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Lincoln  
Michael Schmidt, UNMC Student Rep.  
Kermit Hansen, Omaha  
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**ADMINISTRATION**

- Del D. Weber, Ed.D., Chancellor
ACADEMIC CALENDAR

First Semester 1981-82

Last day for submitting credentials for admission to Graduate Studies for First Semester 1981-82. Orientation.

Last day for submitting credentials for admission to an undergraduate college for the First Semester 1981-82.

Registration (Fieldhouse)

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

Change of class schedules.

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

Vacation; no classes. University closed.

Vacation; no classes.

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

Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.

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

Thanksgiving vacation; no classes.

University closed.

Classes resume at 7:00 a.m.

Status report for all prospective graduating students due in Registrar's Office by 12:00 noon.

Last day for submitting credentials for admission to Graduate Studies for Second Semester 1981-82.

Last day of classes.

Finals.

Commencement.

Christmas & New Year Holiday; University closed.

Grades due in Registrar's Office at 12:00 noon.

Inter-session Special course offerings.

Second Semester 1981-82

Holiday. University closed.

Jan. 1

Jan. 4

Jan. 8

Jan. 11

Jan. 15

Feb. 5

Feb. 26

Feb. 28

March 1

March 5

March 26

March 28

April 13

April 17

April 20

April 24

May 1

May 4

May 6

May 10

May 12

May 31

Last day of classes.

Commencement.

Last day for filing credentials for admission to Graduate Studies for the First Summer Session, 1982.

Grades due in Registrar's Office by 12:00 noon.

Memorial Day; University closed.
SUMMER SESSION 1982

May 17-July 9
Evening Session.

May 28
Last day for submitting credentials for admission to an undergraduate college.

June 2-3
Registration.

June 7-July 9
First Summer Session.

June 10
Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1982.

July 5
Holiday; University closed.

July 7-9
Last day for filing applications for degrees to be conferred August 14, 1982.

July 10
Last day for submitting credentials for admission to Graduate Studies for the First Semester 1982-83.

July 12-Aug. 13
Second Summer Session

July 29
Last day for submitting credentials for admission to an undergraduate college for the First Semester 1982-83.

July 30
Status report for all prospective graduating students due in Registrar's Office by 12:00 noon.

Aug. 14
Summer Commencement.

Aug. 18
Final grades due in Registrar's Office by 12:00 noon.

*The above dates are subject to change.
Modifications in the academic calendar could be necessitated by emergency conditions.

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>Minor Only</th>
<th>Master of Arts</th>
<th>Master of Science</th>
<th>Other</th>
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<tr>
<td>Art</td>
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<td>Biology</td>
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<td>Communication</td>
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<td>Counseling and Special Education</td>
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<td>Counseling and Guidance</td>
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<td>Agency Counseling</td>
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<td>Teaching the Deaf</td>
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<td>Teaching the Emotionally Disturbed</td>
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<td>Economics</td>
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<td>Educational Administration-Supervision and Foundations</td>
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<td>Urban Studies</td>
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</table>

*Ph.D. in the specialties of industrial psychology and developmental psychology offered in conjunction with the Psychology Department, UN-L. Ph.D. in the specialty of experimental child psychology is offered in conjunction with the Educational Psychology and Measurement Departments, UN-L.

**“Determine as a second language.”
GENERAL INFORMATION

GRADUATE STUDIES AT UNO

The first Master's degrees were 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. The degree Master of Science in Education was approved in 1948. In 1954, the 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 1963 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. In 1973 the Graduate Colleges on the separate campuses were merged into one Graduate College of the University of Nebraska with one Graduate Faculty. The College is administered by a Dean of the Graduate College. The former campus Deans of the campus Graduate Colleges became Deans for Graduate Studies and Research and report to the Dean of the Graduate College.

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

Qualified students at UNO are provided with opportunities:

1. To work toward these degrees: Master of Arts, Master of Arts for Teachers of Mathematics, Master of Science, Master of Business Administration, Master of Public Administration, Master of Social Work, and 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, lectures, research and special problem courses, and the supervision of theses 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. The UNO Graduate Council consists of fifteen members from among the Graduate Faculty and student body. The Council serves in an advisory capacity to the Dean for Graduate Studies and Research and is responsible for planning and policy development, review of courses and programs, and faculty and student affairs.

ACCREDITED STANDING

The University of Nebraska at Omaha is fully accredited by the North Central Association of Colleges and Secondary Schools, and has programs which are accredited or approved by the National Council for Accreditation of Teacher Education, the National Council on Social Work Education, the Engineers Council for Professional Development, the American Home Economics Association (for undergraduate programs), the American Dietetic Association, the American Assembly of Collegiate Schools of Business (for undergraduate programs), and the American Chemical Society. Its courses are accepted for purposes of teacher certification by the Nebraska State Department of Education.

Course credits from the University of Nebraska at Omaha are accepted by other colleges and universities which are members of the North Central Association and by other regional accrediting agencies.

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION POLICY STATEMENT

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

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

Privy to this policy statement, UNO will undertake a continuing program of compliance with all those addressing the obligations of the institutions under Title VI of the Civil Rights Act of 1964 and Section 504 of the Rehabilitation Act of 1973.

PRIVACY ACT

In compliance with the Family Education Rights and Privacy Act of 1974, the University of Nebraska at Omaha guarantees students access to official records directly related to students and an opportunity for inappropriate. Also the institution must obtain the written consent of students before releasing identifiable notified of such rights, and that students must be educated to the students to the student.”

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 desiring to make the same inquiries regarding handicap conditions, however, if you are interested to the University of Nebraska, not submit transcripts.)

Scores of the Graduate Record Examination, Miller Analogies Test, and the Graduate Management Admission Test (GMAT) which should accompany the application for admission to the Master of Business Administration program.

NOTE: For consideration for the Full, Evening, Summer, First Summer or Second Summer term, above credentials must be on file by July 15, December 15, April 15, May 15 or June 15 respectively. Those students desiring to be considered for admission to the program in counseling and guidance should see page 35 for separate deadlines dates.

Scores of the Graduate Record Examination, Miller Analogies Test, and the Graduate Management Admission Test must be on file in the Graduate Office.

The text is required and the minimum scores are dependent upon the department in which the student intends to enroll.

Admission to the Graduate College is granted upon application of the candidate for graduate study, and the granting of a degree.

ADMISSION FEE-GRADUATE

An ‘Admission Fee-Graduate’ of $10.00 is required of all first-time graduate students admitted. This fee is not refundable.

EXAMINATIONS FOR GRADUATE STUDENTS

Three examinations: the Graduate Record Examination, the Graduate Management Admission Test and the Miller Analogies Test, are used by various departments to provide valuable evidence of a student’s qualifications for graduate work and are helpful in planning courses of graduate studies.

These examinations are given by UNO under the supervision of the Director, Counseling and Testing Center, and are open to all students desiring to take them. Registration deadlines and testing dates are available from the Counseling and Testing Center, Eppley Building, or the Graduate Office, Eppley Building. A nominal fee is charged for these examinations.

Graduate Record Examination (GRE)

Graduate students are required to take the general aptitude test of 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 and Research. The advanced area

UNIVERSITY REGULATIONS

The University and its various colleges, divisions, and departments reserve the right to change the regulations controlling admission to, instruction in, and graduation from the University or its various programs. 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.
test is also required unless this test has been waived by the cognizant Graduate Program Committee. The examination is not used to exclude admission at the Masters level.

A student who has not taken the GRE prior to application for admission to Graduate Studies but who passes the written examination of classification will be offered the Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) at the student's expense to further study and not enrolling into a degree program is not required to take the Graduate Record Examination.

Students who wish to be admitted to Psychology Department programs are required to submit GRE scores (verbal, quantitative and advanced) before being considered for admission.

Graduate Management Admission Test (GMAT)

Applicants for admission to the Master of Business Administration program are required to take the Graduate Management Admission Test in lieu of the Graduate Record Examination. Test results must be submitted prior to admission.

Miller Analogies Test (MAT)

Graduate students who have been admitted into the Department of Educational Administration-Supervision and Foundations may take the Miller Analogies Test in lieu of the Graduate Record Examination.

Students seeking admission to graduate programs in Counseling and Special Education must take the Miller Analogies Test prior to admission. This test may be taken on an individual basis by scheduling an appointment with the University Counseling and Testing Center, or by contacting the Counseling and Testing Center, which will schedule a limited number of group administrations of the test.

The Test of English as a Foreign Language

A. Admission: A TOEFL score of 550 and at least one of the following:

1. A recommendation acceptable to the Office of Admissions from an English language program.

   The recommendation must adequately address the question of whether the student is prepared for graduate-level work with English as the language of instruction.

2. Attendance for at least two years and graduation from an accredited institution of higher education in which the language of instruction was English.

B. Requirement: Students scoring below 600 on the TOEFL must take the English Department ESL Placement Exam before registering for classes. Students whose English language skill is deficient will be required to take undergraduate English courses as determined by the English Department until the deficiency has been corrected.

These criteria are in addition to any requirements established by individual departmental graduate committees.

CLASSIFICATION OF ADMISSION

In order to receive graduate credit for courses taken at the University, a student must have been admitted to graduate study. Application for Admission forms are available from the Admissions Office or from the Office of the Dean for Graduate Studies and Research. The completed applications, together with the necessary credentials, will be forwarded to the cognizant Graduate Program Committee for review and recommendation. All recommendations on admission are subject to the approval of the Dean for Graduate Studies and Research.

There are three regular classifications of admission:

I. Unconditional

II. Provisional

III. Unclassified

This provisional status will continue until the student has met all of the requirements for admission to graduate study.

Provisional admission may occasionally be granted to a student who has less than a B average in the undergraduate work that meets specific requirements of the department in which the student wishes to pursue further study and not enrolling into a degree program is not required to take the Graduate Record Examination.

Students who wish to be admitted to Psychology Department programs are required to submit GRE scores (verbal, quantitative and advanced) before being considered for admission.

Graduate Management Admission Test (GMAT)

Applicants for admission to the Master of Business Administration program are required to take the Graduate Management Admission Test in lieu of the Graduate Record Examination. Test results must be submitted prior to admission.

Miller Analogies Test (MAT)

Graduate students who have been admitted into the Department of Educational Administration-Supervision and Foundations may take the Miller Analogies Test in lieu of the Graduate Record Examination.

Students seeking admission to graduate programs in Counseling and Special Education must take the Miller Analogies Test prior to admission. This test may be taken on an individual basis by scheduling an appointment with the University Counseling and Testing Center, or by contacting the Counseling and Testing Center, which will schedule a limited number of group administrations of the test.

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A. Admission: A TOEFL score of 550 and at least one of the following:

1. A recommendation acceptable to the Office of Admissions from an English language program.

   The recommendation must adequately address the question of whether the student is prepared for graduate-level work with English as the language of instruction.

2. Attendance for at least two years and graduation from an accredited institution of higher education in which the language of instruction was English.

B. Requirement: Students scoring below 600 on the TOEFL must take the English Department ESL Placement Exam before registering for classes. Students whose English language skill is deficient will be required to take undergraduate English courses as determined by the English Department until the deficiency has been corrected.

These criteria are in addition to any requirements established by individual departmental graduate committees.

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In order to receive graduate credit for courses taken at the University, a student must have been admitted to graduate study. Application for Admission forms are available from the Admissions Office or from the Office of the Dean for Graduate Studies and Research. The completed applications, together with the necessary credentials, will be forwarded to the cognizant Graduate Program Committee for review and recommendation. All recommendations on admission are subject to the approval of the Dean for Graduate Studies and Research.

There are three regular classifications of admission:

I. Unconditional

II. Temporary Admission

When unexpected circumstances preclude processing applications for Unconditional, Provisional, or Unclassified status, the Dean for Graduate Studies and Research may issue a Temporary Admission. A
student enrolling with temporary admission must, within the first eight weeks of the semester, furnish the Admissions Office with all materials required by the cognizant department (including transcripts of all graduate and undergraduate work, one of which must show an earned Bachelor's degree or the equivalent; or a statement from the Graduate Office of another institution indicating that the student is in good standing in a graduate-level degree program at that institution). Students who fail to furnish such materials within six weeks are to be disenrolled from all graduate courses (if such hours are accepted for credit). Students are permitted to attend classes beyond that date. Students seeking admission to a degree program must realize that all admission materials are presented by the student — in contrast to materials may deny admission to the program. If this occurs, a determination will be made as to whether the student may continue graduate studies as an unclassified student or be disenrolled from all graduate courses. Low undergraduates or P. O. A. or undergraduate deficiencies may be sufficient cause for terminating enrollment.

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 recommended annually by the graduate faculty members of the department for the appointment by the Dean for Graduate Studies and Research. In its department the Graduate Program Committee has the responsibility for the planning of the graduate program, the general supervision of the candidates for graduate degrees and the examination of students as such the qualifying examination and the final comprehensive examination when these examinations are not given by a student's thesis or field project supervising committee.

The candidate, in graduate standing, in consultation with the chairperson of the Graduate Program Committee of the major department, shall select a 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 and Research by the chairperson of the student's Graduate Program Committee after consultation with the student and the 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 whenever feasible, 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 may be appointed to serve ex officio (without vote) as consultants (or to gain experiences as special representatives of the Dean for Graduate Studies and Research). The chairperson of the Graduate Program Committee 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; all courses are transfer credits and those electives which are not major courses.

To ensure accountability and maintenance of the standards, policies and procedures, the Graduate College, all graduate advising must be provided by Members and Fellows of the Graduate Faculty (with exceptions possibly for persons with a primary administrative role under the direct supervision of a Member or a Fellow).

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 the major adviser (and of the Dean for Graduate Studies and Research if he/she is registering for more than twelve hours). Students must have been formally admitted to graduate study prior to their first registration.

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 qualified to do so. The qualifications for degree candidacy are: (1) the successful completion of the Thesi: Test, or the Graduate Management Admission Test must be on file in the Graduate Office; (2) a minimum of six (6) hours of graduate credit must have been completed within the Graduate College of the University System of the University of Nebraska; and (3) an average of 'B' or better with no grade lower than "C" on all work taken which is included in the Plan of Study. Any Incomplete marks in the individual's major field of study must be made up within thirty days following the submission of the Application for Candidacy. At least one-half of the approved Plan of Study must be completed following the approval of the Application for Admission to Candidacy. Transfer hours from universities other than the University of Nebraska will not be counted within the (of the coursework) that must be completed after application for candidacy.

There are no prior limits on the transfer and applicability of credits earned in one program of the Graduate College of the University of Nebraska toward meeting degree requirements in another such program. However, only credits must be individually evaluated and approved by the appropriate Graduate Program Committee and the appropriate Graduate Dean before they may be transferred from one program to another.

A candidate degree can be awarded in the same semester as candidacy for the degree is approved. A maximum of fifteen hours of course work used to satisfy the requirements of a previous graduate degree may be applied to a second graduate degree by the Graduate Program Committee of the department in which the second degree is sought. Application forms should be submitted by the student so that the graduate student can qualify for admission to candidacy. Both the major and minor advisers should be included on the application form. The major and minor advisers should be carefully and completely 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 signs 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 and Research.

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

APPLICATION FOR THE DEGREE

The candidate for the degree must file an application for degree at 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 Master's degree prior to the conclusion of their graduate study. For those candidates who have completed the final comprehensive examination may be either written or oral. The written examination may consist of the candidate's experience in the major field of study or oral at the option of the department concerned. If written, it must be arranged at least one month in advance. If oral is elective, it should be arranged at the time of the oral examination major advisor. If the comprehensive examination is to be oral, it should be arranged at the time of the oral examination major advisor. In all cases the comprehensive examination is required of all graduate students at the time of the thesis, at which time one-half of the examination may be devoted to the courses taken by the candidate and one-half to the thesis. If the course work has been approved by the Dean of Business Administration, the course DA 800 is required in lieu of a final comprehensive examination.

For those students who have experienced very high quality the minor adviser may request the student's committee that the candidate be excused from the comprehensive examination covering the minor field. This does not prejudice the previous student's performance in giving a comprehensive examination, but only the comprehensive examination must be given at a date arranged at the convenience of both the student and the minor adviser but falling within the limits established for all comprehensive examinations.

Most graduate departments require students to register for the comprehensive examination at the time of their final enrollment; however, students should check with their advisors early in their programs to determine departmental policy concerning the comprehensive examination. (Note: In most departments, who plan graduate degree program completion in August should register for the comprehensive examinations at the preceding June.)

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

THESIS

Students electing to pursue the Option I degree program described page 9 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 firsthand experience in research methods under competent direction. Up to eight hours of credit is allowed for the thesis and the candidate must include the thesis as a course in his/her 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. It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses." The thesis must be approved by the student's committee and submitted to the Graduate College. The thesis must be approved by the signature of the committee and submitted to the Graduate College in final form with the signature of the candidate. The candidate must present the approval sheet at the time of graduation. The candidate must be present at the time the thesis is read, or absence must be excused by an official statement from the Dean of the College of Arts and Sciences. A copy of the thesis must be retained in the Graduate Office.

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.
DECISIONS TO ACCEPT STUDENTS WHO WISH TO CHANGE MAJORS SHALL BE MADE BY THE DEPARTMENT IN WHICH THE DEPARTMENT, OR THE INSTRUCTOR RESPONSIBLE FOR THE CLASSROOM, IF THE INSTRUCTOR IS THE ONLY INSTRUCTOR RESPONSIBLE FOR THE CLASSROOM, OR THE STUDENT RESPONSIBLE FOR THE CLASSROOM, IF THE STUDENT IS THE ONLY STUDENT RESPONSIBLE FOR THE CLASSROOM. THE STUDENT'S RESPONSIBILITY TO DEPOSIT THE PROPER NUMBER OF COPIES OF THE CORRECTED AND APPROVED THESIS IN THE GRADUATE OFFICE TOGETHER WITH THE ORIGINAL APPEAL SHEETS AT LEAST TWELVE WORKING DAYS PRIOR TO THE COMMENCEMENT OF THE DEGREE.

QUALITY OF WORK

A "B" average must be maintained in all graduate work taken as part of a degree program, with no more than two graduate courses in the degree program carrying a grade of "C". Notwithstanding a student's average, a grade of "C" in nine or more hours of graduate credit will result in automatic dismissal from any further graduate work in that specific degree program.

A grade of "D" or below for any course taken in the student's major field of study or in any course included in the Plan of Study is considered a failing grade and a student receiving such a grade will AUTOMATICALLY BE DROPPED from the degree program. The student must then submit an appeal to the COGNIZANT GRADUATE COMMITTEE OR ACADEMIC ADVISER as the appropriate academic body designated for hearing such grievances.

NOTE: Two or more incompletes (excluding research projects and theses) will result in a stop enrollment until the incompletions are turned into a grade of F. Any extensions to the one semester time frame will be considered for academic purposes, other than those included in the Thesis requirements.

CHANGE OF MAJORS

Students who change majors will be eligible for transfer to the new graduate program for the purpose of a time extension for research, but not beyond the two years from the date the "I" was recorded unless approval is granted by the Dean for Graduate Studies and Research and the appropriate college or department (for exceptions, see paragraph E).

A student may not change majors while he has two or more "incompletes" on his record. The decision to accept students who wish to change majors shall be left to the Program Committee or the department in which they are seeking admission.

POLICY ON CLASS ATTENDANCE

The policy applies to all classes conducted on the University of Nebraska at Omaha campus. It is the responsibility of each student to arrive on time and to be present for the entire class period. All classes are conducted on the premise that regular attendance is desirable and expected. The instructor in charge has the responsibility for enforcing attendance and for communicating the beginning of each semester those attendance policies which prevail in that classroom.

The student in an absence, the student's primary responsibility is to consult with the instructor, and the student should consult with them accordingly. A student who misses a class is nonetheless responsible for information and assignments communicated during that class session. If a student discovers that he or she is to be absent for an extended period, the student should promptly notify the instructor 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 sponsored event are responsible for obtaining information to the students involved so that the students may provide notice to other instructors.

Appeals procedure: "If 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 initial appeal shall be made in the same manner as provided for other class-related items (e.g., grades, cheating, etc.), involving the student submitting the justification for the appeal in writing to the department. If the initial appeal decision is unsatisfactory, the next step in the appeals process will be initiated by the student submitting a written statement to the respective academic dean, indicating the specific nature of the appeal to be considered and requesting the consideration of the appropriate academic committee designated for hearing such grievances.

The committee makes a recommendation to the respective dean, and the dean's decision is then conveyed to the student. If a student wishes to appeal further the decision of the academic dean, a written appeal may be submitted to the University Committee on Academic Standards, which serves an appellate function in hearing appeals of students who feel aggrieved on the basis of decisions rendered by the academic deans.

The University Committee on Academic Standards shall recommend appropriate action to the Provost and Vice Chancellor for Academic Affairs.

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

GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS

The following policy was approved by the University of Nebraska Graduate College's Executive Graduate Council on April 24, 1975. It applies to academic matters, other than those associated with class attendance.

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

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

2. If denied, the appeal may be submitted to the Department or Interdepartmental Area Graduate Committee administratively responsible for the student's graduate program.

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

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

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

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

3. If denied, the appeal may be submitted to the Departmental or Interdepartmental Area Graduate Committee administratively responsible for the student's graduate program.

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

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

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

E. 1. Only under specific circumstances will Committee III of the Executive Graduate Council hear an appeal from the decision of the campus graduate council. These circumstances are limited to occasions where Committee III believes that:
DROPPING AND AUDITING COURSES

A student may not drop a course after the date stated in the Academic Calendar and the Class Schedule. Exceptions beyond that date will require the professor's certification that the student was earning a grade of "B" or higher as well as the approval of the Dean for Graduate Studies and Research.

The Dean's approval will require, in part, an uncontrollable circumstance interfering with the student's studies.

A student must be admitted to the Graduate College in order to audit a graduate course. He/She must secure the permission of the instructor, must register for the course, and must secure the approval of the instructor of the course whose prerogative it will be to determine privileges including examinations and the terms of the course. Acceptance of or denial of jurisdiction over the appeal will be in writing.

Such appeal must be made within 20 working days after receipt of the decision of the campus council. Acceptance of or denial of jurisdiction over the appeal will be in writing.

Within 20 working days of the day the decision of the campus council is received, the student may request a hearing. The request must be in writing and must specifically outline the grounds for the appeal. The student must specifically outline the grounds for the appeal.

Students enrolled for more than twelve hours must have the approval of the Dean for Graduate Studies and Research. The Director of the Graduate School of Social Work may approve loads of up to twenty-one hours subject to the student's graduate program. The total hours of transfer credit may not exceed the number stated except by petition submitted by the student to his / her major adviser who forwards the petition with his recommendation to the Dean for Graduate Studies and Research for his approval.

STUDY LOAD

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

Students carrying less than twelve hours may obtain a regular student activities card by paying the full-time fee of $43.00.

NOTE: Students enrolling for more than twelve hours must have the approval of the Dean for Graduate Studies and Research. The Director of the Graduate School of Social Work may approve loads of up to twenty-one hours subject to the student's graduate program.

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The last thirty-six hours of work on the Plan of Study for any graduate degree must be completed within six consecutive calendar years.

The last day of class of the earliest course which appears on the last thirty-six semester hours of the student's Plan of Study is the beginning of the student's graduate education. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate College for permission to take a special examination, or the current semester final examination in courses which the student has completed with a grade of "B" or higher. Acceptance of or denial of jurisdiction over the appeal will be in writing.

Within 20 working days of the day the decision of the campus council is received, the student may request a hearing. The request must be in writing and must specifically outline the grounds for the appeal.

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 / her major adviser and the UNO Dean for Graduate Studies and Research or his designee prior to submitting the withdrawal form to the Registrar's Office. Any refund of fees will be credited to the student's account as shown on the student's record on file in the Cashier's Office. Failure to withdraw according to this procedure may cause forfeiture of refunds and inappropriate posting of grades.

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 8000 numbered courses. It is expected that all such courses are offered through the Department of Graduate Studies and Research for the enrollment of a higher level of 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 (16 in the case of the Master of Science, Master of Public Administration, 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. NOTE: The Master of Social Work degree requires a minimum of forty-two semester credit hours.

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.

The total hours of transfer credit may not exceed the number stated except by petition submitted by the student to his / her major adviser who forwards the petition with his recommendation to the Dean for Graduate Studies and Research for his approval.

Courses for which transfer is requested must not have been used to satisfy the requirements for any previously awarded degree. Degrees in courses for transfer of credit must be the equivalent of "B" or higher. A written request must be made for transfer of credit from an ungraded course elsewhere; the student must have the former instructor submit an evaluation of the course to the Dean for Graduate Studies and Research for review and approval. Transfer of credit for prior graduate work shall be made at the same time that the student applies for admission 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.

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

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TIME LIMIT FOR GRADUATE DEGREES

The last thirty-six hours of work on the Plan of Study for any graduate degree must be completed within six consecutive calendar years. The first day of class of the earliest course which appears on the last thirty-six semester hours of the student's Plan of Study is the beginning of the student's graduate education. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate College for permission to take a special examination, or the current semester final examination in courses which the student has completed with a grade of "B" or higher. Acceptance of or denial of jurisdiction over the appeal will be in writing.

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Tuition, Fees, Deposits and Refunds

The University reserves the right to change the amount of tuition or fees any time, and to assess charges for breakage, lost property, fines, penalties, parking, books, supplies and services 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 enrolling themselves of the delayed billing option must familiarize themselves with the due dates, as publicized. Notice Failure to receive the mailed billing notice will not excuse the student of payment responsibility, nor the late payment penalties. Students in need of financial aid must consult the Student Financial Aid Office in the Eppley Building. Application for financial aid should be made at the earliest possible time.

Students enrolling for laboratory courses are advised that a laboratory fee may be charged for laboratory courses. Refer to the semester schedule of courses for these fees.

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

The Five Year Plan of the Board of Regents has established the fee schedule of laboratory fees at UNL, UNO, and IANR for the fall of 1981. Although new fees have not yet been set, it is likely that there will be some courses for which laboratory fees will be collected.

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 fee. Residency for the purposes of assessment 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

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

Tuition:

- Per Semester Credit Hour, Undergraduate Graduate
  - Resident of Nebraska (see residency statute) $20.25 $31.25
  - Non-Resident $79.25 $81.25
  - Per Student Credit Hour through Off Campus Program $36.50 $38.50

Audit Fee:

The audit fee is not for credit and is set at one-half of the Resident tuition rate. Registration for audit class 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

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 $35.00
  - Two semester credit hours $70.00
  - Three semester credit hours $95.00
  - Four semester credit hours $115.00
- Conference, non-credit, and off-campus course teach fees are determined for each offering based upon the cost factors and peculiar circumstances involved.

University Program and Facilities Fee (UPFF): Undergraduate or Graduate

- Full-time students, undergraduates or graduate (12 credit hours or more) per semester $43.00
- Part-time students, undergraduates or graduate (less than 12 hours) per semester $25.00

This fee is assessed to every student each semester of which $3/0 of each of these fees is designated for Campus Recreation.

The UPFF receipts are divided into two separate funds: Fund-A Student Fee and Fund-B Student Fee.

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

The Fund-B of the UPFF is designed for services, staff salaries, maintenance of facilities and related expenses for the students, and is administered by the Chancellor. The portion is designed by the Chancellor. The Fund-B portion is designed by the President of the Board of Regents for final approval.

The full-time fee of $43.00 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 $43.00.

Special Service Fees:

- Continuing Engineering Studies — Professional Studies — Development
  - Degree Program
    - Initial application $25.00
    - Approval of 300 credit units (additional) $25.00
    - Approval of 500 credit units (additional) $25.00
    - Approval of 700 credit units (additional) $25.00
    - Approval of 1000 credit units (additional) $25.00
    - Transcripts of Academic Records (First Copy) $3.00
    - Additional copies — Same order $1.00
    - Thesis Binding — per copy $6.00
    - Change of Program Fee (per each class changed) $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
    - Returned Check — per check $2.00

- New Registrants $27.50
- Fee covers establishment of permanent placement file, 10 sets of credentials, and the weekly Vacancy Bulletin may be obtained in the Office.
- Resident of Nebraska: $23.00
- Non-Resident: $23.00

University Testing Services:

- ACT Assessment (ACT), National $8.50
- ACT Assessment (ACT), Residual $12.00
- Credit by Examination — College Level
  - Exam Program (CLEP) $20.00
  - Credit by Examination — per course (Departmental) $25.00
  - Correspondence Tests $25.00
- General Educational Development (GED) $10.00
- Graduate Management Admission Test (GMAT) $30.00
- Graduate Record Examination (GRE) $20.00
Second week of classes

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

Summer Sessions (5 and 6 weeks)

Before first official day of semester First three weeks of classes Remainder of first week Second week of classes

Summer Evening and Special Contract (7 and 8 weeks)

Before first official day of semester First three weeks of classes Remainder of first week Second week of classes Third week of classes

Non-Credit and Special Courses (10 weeks or more)

Withdrawal before classes start Withdrawal before first week elapsed Withdrawal before second week elapsed Withdrawal after 2 weeks elapsed Withdrawal after second class

RESIDENT STUDENTS

A student's right to classification as a resident is determined by the provisions of Nebraska Revised Statutes of 1943, Sec. 85-502 (R. S. 1965). (See General Catalog.) Any student who has been classified as a nonresident who believes he can qualify as a resident should contact the Registrar's Office.
The results of these tests are provided by counselors from the center. Further examination of educational, personal and career opportunities can be developed from the exploration of information gained from the test results and counseling sessions.

The Counseling Center is located in Room 115 of the Eppley Building (62d and Dodge) and is open during the day and early evening hours with the exception of weekends and announced university holidays.

Testing Center
A variety of testing services are available through the Testing Center, which is located in Room 113 of the Eppley Building.

Aptitude, interest and psychological tests are administered on a daily basis upon the recommendation of the Counseling Center personnel. Other testing programs include the following:

Credit By Exam at UNO
Credit by Examination allows students the opportunity to gain academic credit for knowledge they have acquired through self-study or experience. Up to 30 hours of credit towards a bachelor's degree may be earned by achieving acceptable scores on examinations.

Two types of credit by examination are available at UNO: The College-Level Examination Program (CLEP) which offers tests in many subject areas; and UNO's Special Examination Program which involves challenging any course taught at the University by taking a departmental examination. (Students must be registered to attempt departmental exams.)

The following general provisions apply to credit by examination at UNO:

- Credit earned by examination may not constitute any part of the terminal residency requirements (see residency requirements in this catalog).
- Credit will not be granted as substitute credit for college courses which have been failed at the university level. A student will be granted credit to raise a grade earned in any course.
- Examinations for credit or placements may not be repeated. Credit by examination may not be earned in any course taken on a audit basis after September 1, 1972.
- A reasonable fee (see fee schedule in this catalog) will be charged to administer and/or evaluate an examination for credit or placement, and 50 per cent of resident tuition will be charged for credit earned. The $25.00 testing fee for Departmental Exams will be applied to the tuition cost.
- Credit earned by examination will be recorded as 'CR' on the transcripts, and this credit will not be used in calculating grade point average.

A department giving a student a departmental test for credit examination shall be responsible for reporting the grade to the Testing Center. The time lapse shall not be greater than the semester following the time examination was given.

Within these parameters, the department or departments concerned retain responsibility in all matters, including:

- Determination of whether or not placement or examination credit should be offered in their area.
- Selection or preparation of examinations to be given for placement or examination credit.
- Determination of the level of proficiency required for earning placement or examination credit.
- Determination of the time, sequence, and level of examinations and amount of credit in departmental courses.

Examinations for Admission to Graduate or Professional Schools. The Testing Center also administers standardized examinations required to enter professional or graduate schools. These examinations include Graduate Record Examination, Miller Analogies Test, Graduate Management Admissions Test, Law School Admissions Test, and Test of English as a Foreign Language.

Information and applications are available at the Testing Center, room 115, Eppley Building, 554-2499.

The Information Center
The Information Center located in the Eppley Building has available information about campus events and campus phone numbers and offices for University employees. To give or receive information call 554-2800 from 7:30 a.m. to 7 p.m.

Parents Association
Parents of students at the University of Nebraska at Omaha have a unique opportunity to become involved in the growth and development of the institution by joining the UNO Parents Association. Any parent of a UNO student is eligible to become a member. Membership in the Parents Association gives parents an opportunity to become better informed about UNO and to share their children's college experience. Family membership dues are $5.00 annually. For information contact Student Development Services.

Student Employment Services
UNO students seeking off-campus, part-time employment should visit Student Employment Services in the Eppley Building, Room 111.

Students employed on campus are available to assist students in obtaining employment, matching job with career interest where possible. Emphasis is placed on developing job-search skills and interviewing techniques with the Student Employment Service acting as a liaison between employer and student.

Special Programs
The Office of Special Programs is the coordinating arm of several service units which function to assist UNO students with their special needs. The units, which are a part of the Office of Special Programs, are the Women's Intervention/Mental Health Services, Handicapped Student Services and the Learning Resource Center. The Office of Special Programs is located in room 119 of the Eppley Building.

Handicapped Student Services
This service provides counseling to handicapped students as well as a forum to discuss and initiate needed services for the students. An advisory committee assists the University in providing a more conducive environment for handicapped students.

In compliance with the Rehabilitation Act of 1973 (Section 504) a handicapped student who is enrolled in a course located in a "non-accessible" room may request: 1) be/she transferred to another section of the course which is accessible, or 2) that the location of the course be changed to an accessible room.

Students may initiate requests for transfer of course sections, or room assignment in the Registrar's Office.

Learning Resource Center
The Learning Resource Center at the University of Nebraska at Omaha offers a variety of academic support skills designed to aid all students in achieving success in the classroom. Services offered at the Center include a writing lab, a tutoring lab, a reading lab and a reading lab. Since the labs are offered at specific times, make certain to contact the Center to see when the lab you need to participate in is being held. Additionally, the Learning Resource Center provides tutorial assistance in a wide range of courses. The Center is located in room 119 of the Eppley Building.

Minority Affairs
The Office of Minority Affairs acts as a referral agent for persons seeking information and services at UNO and agencies located in the area. The Office disseminates information necessary in the coordination of activities involved with the minority student population as well as those special interest groups (American Indians United, Black Liberator (for Action on Campus, Hispanic Student Organization, and United Minority Students) which were organized to serve them.

The Office also provides cultural and academic programming for minority students on campus.

The Office works to minimize the difficulty minority students encounter during their learning process at UNO.

Student Health Services
The Student Health Service, located in the Milo Bill Student Center, is available to all students, and provides free First Aid and emergency assistance with referral when necessary. Preventive health measures are a primary concern and include blood pressure checks, vision and hearing tests, stress cultures for possible Stress infection, a Tuberculosis skin testing program, plus scheduled clinics and programs on selected topics of interest.

A Physician Assistant is available for free consultation, diagnosis, treatment and follow-up care two half days per week. A Registered Nurse is on duty Monday through Thursday, 8 a.m. to 7 p.m. and Fridays, 8 a.m. to 5 p.m.

Appointment must be made through the Health Service for both temporary and permanent handicap parking permits.

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

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

FINANCIAL AID FOR GRADUATE STUDENTS

GRADUATE ASSISTANTSHIPS

Available for qualified students who are enrolled in a graduate degree program are graduate assistantships in teaching, research or candidacy 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. Approximately twenty hours of work per week is required. The
Studies and Gamma Scholarship. Excellent record: The Mary-Ellen Patterson-Phi Delta Gamma Scholarship and the Nelle Boyer-Phi Delta Gamma Scholarships are available to women graduate students who have completed approximately one half of their graduate work with an outstanding academic record. The limited basis is normally available to Nebraska residents. Further information is available from the Chairperson of the Department in which the assistantship is desired.

TUITION WAIERS FOR GRADUATE STUDENTS

Tuition waivers are often available for qualified students who have been admitted to graduate study. Eligibility is based on academic qualifications and financial need. Information and application forms are available in the Graduate Office. Allow at least two months for processing applications.

TRAVELING SCHOLAR PROGRAM

The University of Nebraska is a member of the Mid-America State University Association along with Iowa State University, Kansas State University, University of Kansas, University of Oklahoma, Oklahoma State University and the University of Missouri. Under the traveling scholar program, a graduate student who wishes to use special research facilities or take courses not available at the University of Nebraska at Omaha may do so with a minimum of six credit hours. If the major department and institution agree, the student may spend a semester at another MASA school simply by making appropriate arrangements at UNO. Nebraska residents pay resident tuition. The Graduate Office has further information.

INTERSTATE RECIPROCITY AGREEMENT FOR GRADUATE EDUCATION

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

SCHOLARSHIPS

Phi Delta Gamma, a national sorority for women, offers two annual scholarships of $200 each, to women graduate students who have completed approximately one half of their graduate work with an excellent record: The Mary-Ellen Patterson-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 and Research, Room 204, Eppley Building. Applications should be in the Graduate Office by March 1 of each year.

LOANS

Graduate Students are eligible to apply for National Direct Student Loans (NDSL) which are based upon financial need. 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 Office of Financial Aid, Room 219, Eppley Building.

WORK—STUDY

Graduate Students may apply for College Work—Study positions. Eligibility for these positions is based upon financial need. To apply for work-study, contact the Office of Financial Aid, Room 219, Eppley Building.

ADMINISTRATION FOR GRADUATE STUDIES

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 and Research serves as Chairperson of the Graduate Faculty. Information about graduate programs, including qualifications of graduate faculty members, is available in the Graduate Office.

GRADUATE FACULTY MEMBERS

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

CRITERIA

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

1. The nominee must hold the rank of Assistant Professor or above.
2. The nominee must have published research and scholarly work of quality, or have demonstrated comparable, creative achievement.
3. The nominee will as part of his or her regular duties be actively involved in graduate student research and/or graduate teaching.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential beyond teaching. This evidence must be provided by the nominator.
If be the responsibility of the Academic Freedom and Tenure Committee.

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

POLICY ON ETHICAL CONDUCT

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

SUMMARY OF PROCEDURE FOR GRADUATE STUDENTS

1. File official transcripts of all undergraduate and graduate credit and an application for admission to the Graduate Council, First Floor, East, Eppley Building.
2. Contact an advisor within the department to which you are applying for admission to determine departmental admission requirements.
3. Arrange to take the appropriate entrance examinations for your department. These will normally include either the GRE, GMAT or MAT. If you have already taken the appropriate examination, have your scores sent to the Graduate College.
4. You will be notified by mail of your acceptance or non-acceptance into the Graduate College after your transcripts have been evaluated.
5. Arrange your class schedule with your advisor and have him/her sign your registration card. You will be asked to pay a $10.00 Admission Fee-Graduate the first time you enroll for graduate study.
6. Apply for candidacy as early as possible. This can be done as soon as you have satisfactorily completed six hours of graduate work at UNO, have your transcripts showing a Bachelor's degree and the GRE (or other specified test) scores on file in the Graduate Office, and have completed all undergraduate prerequisites and other departmental requirements. See your advisor for details. NOTE: Filing for candidacy is not the same as filing for a degree. It is necessary for you to make application for the degree in the semester in which you intend to graduate.
7. If you are a transfer student, you must consult with your department's Graduate Program Committee to determine which courses you will be allowed to transfer. These courses must be included on your application for candidacy.
8. You will be informed by mail of your admission to candidacy.
9. At the time of your final enrollment, arrange with your supervisory committee a time for your comprehensive examinations, if these have not already been taken. Also, inform the Graduate Office of your intent to graduate so that your graduate record may be compiled and reviewed.
10. If your approved program includes a thesis, obtain a copy of "Instructions for the Preparation of Theses" from the Graduate Office and prepare your thesis in accordance with Graduate College guidelines and departmental style requirements. Make arrangements with your department for oral examinations. The completed, fully corrected and approved thesis must be deposited in the Graduate Office together with the proper number of copies of it at least twelve working days prior to the conferral of the degree. The thesis binding fee must be paid in the Registrar's Office prior to the depositing of the thesis in the Graduate Office.
11. Make application for the conferral of the degree in the Registrar's Office. The deadlines for filing are published in the Academic Calendar and are to be observed by all students. The deadlines will be stated in the current issue of the Graduate Catalog as well as posted during registration and in the Registrar's Office.
12. Pay all fees and fines and satisfy all obligations to the University at least twelve working days before conferral of the degree.
13. Order a cap, gown and hood from the Bookstore.
DEGREE REQUIREMENTS

BIOLOGY

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

Master of Arts

Ordinarily 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. To complete the Master of Arts degree a student 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 departmental seminar (801V), and at least 23 hours of appropriate courses to be determined by the student and the faculty committee. Graduate students are expected to attend the departmental seminar even when not registered for it. The candidate must pass a final oral examination and present his/her thesis results at an open meeting of the faculty and students.

Master of Science

A student may become a candidate for this degree only upon the recommendation of the student's advisory 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/her faculty committee. Graduate students are expected to attend the departmental seminar (801V) even when not registered for it. The candidate must pass a final written comprehensive examination.

Master of Public Administration — Environmental Option

The Biology Department cooperates with the Department of Public Administration in offering this degree. The degree is administered through Public Administration and is described under that department.

BUSINESS ADMINISTRATION

The Master of Business Administration Degree

The MBA is a professional graduate degree designed to provide an intense educational experience for students who desire to assume positions of increasing responsibility in business. Courses in the program give the students an understanding of the principles of management, marketing, and finance and a proficiency in the use of accounting, computers, statistics, and quantitative methods as tools for analysis of business activities. Also, the student is made aware of the societal, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business. Emphasis is placed on decision making and problem solving.

Admission Standards

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

Junior-Senior GPA x 200 + GMAT = 1020

The GMAT score must not be below 400 in computing the above total. Students who do not meet the above criteria or who attain a GMAT score below 400 may be considered for admission on an exception basis only.

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

- Economics: BA 818H or Macro- and Microeconomics at the undergraduate level
- Accounting: BA 811H or 1 year of Principles of Accounting at the undergraduate level
- Computers in Business: DS 231
Quantitative Methods and Statistics
BA 817V or an equivalent course taken at the undergraduate level

Production/Operations Management
MOB 300

Business Law
L 45 333

Corporate Finance
BF 325

Management Principles
MOB 349

Marketing
MKT 331

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

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

Core Courses

BA 800V: Quantitative Analysis 3 hours
BA 801V: Business and Society 3 hours
BA 810V: Managerial Economics 3 hours
BA 820V: Managerial Accounting (or either BA 821V, BA 823V, or BA 832V, if applicable) 3 hours
BA 831V: Human Behavior in Organizations 3 hours
BA 840V: Policy, Planning, and Strategy 3 hours

Option Courses

Option #1 — Business Administration
BA 830V: Environment of Management 3 hours
BA 840V: Marketing Policies 3 hours
BA 850V: Financial Management 3 hours
BA 860V: Business Conditions Analysis 3 hours

Option #2 — Marketing
BA 840V: Marketing Policies 3 hours
BA 841V: Promotional Policies 3 hours
BA 845V: Seminar in Marketing 3 hours

One of the following courses:
BA 802V: Research Methods in Economics and Business 3 hours
BA 803V: Business Conditions Analysis 3 hours

Option #3 — Decision Sciences
BA 802V: Research Methods in Economics and Business 3 hours
BA 801V: Business Information Systems 3 hours
BA 804V: Applied Quantitative Analysis 3 hours

One of the following courses:
BA 805V: Business Forecasting 3 hours
Econ 830V: Econometrics 3 hours
BA 800V: Independent Research (In Decision Science) 3 hours

Option #4 — Real Estate
BA 860V: Real Estate and Land Use 3 hours
Econ 861V: Current Problems in Real Estate and Land Use Economics 3 hours
BA 899V: Thesis 3 hours

Option #5 — Accounting
BA 821V: Accounting Theory (If not taken as part of core course) 3 hours
BA 822V: Controllership (If not taken as a core course) 3 hours
BA 823V: Seminar in Accounting (If not taken as a core course) 3 hours

One of the following courses:
BA 831V: Accounting Theory (If not taken as a core course) 3 hours
BA 832V: Controllership (If not taken as a core course) 3 hours
BA 823V: Seminar in Accounting (If not taken as a core course) 3 hours

One of the following courses:
BA 803V: Business Information Systems 3 hours
BA 890V: Independent Research (in Accounting) 3 hours

(Note: If either one of the three courses BA 821V, BA 823V, or BA 823V is taken as a core course, both BA 803V and BA 890V must be completed.)

Option #6 — Economics
BA 800V: Business Conditions Analysis 3 hours

Plus 9 hours from the following (no more than 6 hours of M-level courses may be included in the MBA program):
Econ 831M: Public Utility Economics 3 hours
Econ 832M: Energy Economics 3 hours
Econ 833M: Transportation Economics 3 hours
Econ 834M: Environmental Economics 3 hours
Econ 801V: Theory of Public Finance 3 hours
Econ 810V: Economic Research 3 hours
Econ 816V: Seminar in Labor Economics 3 hours
Econ 830V: Seminar in Micro Theory 3 hours
Econ 822V: Seminar in Macro Theory 3 hours
Econ 839V: Research Methods 3 hours
Econ 830V: Econometrics 3 hours
Econ 843V: Seminar in Money and Banking 3 hours
Econ 861V: Seminar in International Economics 3 hours
Econ 883V: Seminar in Urban Economics 3 hours

Option #7 — Management
BA 830V: The Environment of Management 3 hours
BA 835V: Seminar in Management 3 hours
BA 837V: Personnel Administration 3 hours

One of the following courses:
BA 800V: Business Information Systems 3 hours
BA 805V: Business Conditions Analysis 3 hours
BA 804V: Marketing Policies 3 hours

Option #8 — Banking and Finance
BA 800V: Business Information Systems 3 hours

Plus 3 hours from the following:
BA 851V: Security Analysis 3 hours
BA 852V: Seminar in Investment Management 3 hours
BA 853V: Seminar in Finance 3 hours
Econ 845V: Seminar in Money and Banking 3 hours
BA 851V: Banking and Financial Markets: Structure, Function, and Policy 3 hours
BA 890V: Independent Research (in Finance) 3 hours

Option #9 — Industrial Psychology
BA 825V: Personnel Administration 3 hours
Psych 862V: Psychological Aspects of Industrial Training and Education 3 hours
Psych 961: Seminar in Industrial/Organizational Psychology 3 hours

Plus one of the following four courses:
Psych 813M: Research Design 3 hours
Psych 814V: Nonparametric Statistics 3 hours
Psych 910: Prerequisites: Analysis of Variance 3 hours
Psych 911: Prerequisites: Multiple Regression and Factor Analysis 3 hours

Option #10 — Individually Designed Program
A student under the guidance of the Director of Graduate Studies in Business and Economics and with the approval of the Graduate Faculty of the College of Business Administration may develop an option of 12 hours of study.

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

Student Responsibilities

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

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

Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements. A maximum of 3 C's in graduate courses is permitted.

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

**Master of Science**

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

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

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

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

Admission to the Graduate Degree Program. Graduate students are required to select a Masters Degree Option for the Masters Degree Examination. Students should contact the Department regarding these admissions requirements and procedures. One such exception from the general Graduate Studies procedures are the different admissions deadlines for Counseling and Guidance.

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

The last date for completing all requirements for admission to the Department of Counseling and Guidance is April 23 for the Spring semester and September 30 for the Fall Semesters. Students are admitted to the program in Counseling and Guidance twice each year. If students wish to begin the program at a different time from those indicated, they may discuss this with their faculty advisor.

**NOTE:** Non-counseling degree students may obtain an elective option in Affective Humantiation Process. This consists of a 12-hour block of courses which must be authorized by Dr. Hart Arrasmith in the Counseling and Guidance Program and the student's advisor for this to be officially included as part of the student's degree program.

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**DEGREE REQUIREMENTS**

**Master of Arts**

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

**Master of Science**

**Specialization in Agency Counseling**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>FED 801V</td>
<td>Introduction to Research</td>
<td>3 hours</td>
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<tr>
<td>Selected Cognitive Courses</td>
<td>6 hours</td>
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<tr>
<td>COUN 822M, Vocational Decision Making</td>
<td>28 hours</td>
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<tr>
<td>COUN 890M, Principles of Guidance</td>
<td>12 hours</td>
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<tr>
<td>COUN 823V, Appraisal Techniques in Counseling and Guidance</td>
<td>25-27 hours</td>
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<td>COUN 834V, Counseling Practices</td>
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<td>COUN 825V, Counseling Practicum</td>
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<td>COUN 829V, Community Involvement for Urban Counselors</td>
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<td>COUN 851U, Advanced Practicum</td>
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Selected additional courses in the department.

**Specialization in School Counseling — Secondary Level**

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**COUNSELING AND SPECIAL EDUCATION**

Programs in Counseling and Special Education are offered by the Counseling and Special Education Department. Admissions examinations for programs in this department are identified on page 14.
DEGREE REQUIREMENTS

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 includes a comprehensive 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. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) is required for initial entrance into the program.
2. Two letters of recommendation from people who know your undergraduate work well must be submitted to the department before the application can be processed.
3. 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).
4. Have successfully completed a minimum of twenty-four semester hours of work preparatory to admission to the major. These hours are to include the following courses or their equivalents:
   - SPED 140, Introduction to Communication Disorders
   - SPED 433, Speech Reading and Auditory Training
   - SPED 437, Hearing Disorders
   - SPED 438, Speech Science I: Speech Mechanisms
   - SPED 439, Hearing Science
   - SPED 442, Language Development in Children
   - SPED 443, Speech Pathology I: Childhood Language and Articulation
   - SPED 444, Speech Pathology II: Rhythm and Synchronization
   - SPED 445, Speech Science II: Experimental and Applied Phonetics
   - SPED 450, Communication Disorders in the Elementary and Secondary Schools
   - SPED 451, Basic Clinical Practicum in Speech Pathology
   - SPED 475, Language Disorders in Childhood
   - PSY 213, Statistics

5. For those students who wish to work toward special state certification in the schools, advice consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field).
6. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   1. Required Courses:
      - FED 801V Introduction to Research
      - SPED 851V Advanced Clinical Practicum in Speech Pathology (schools)
      - SPED 852V Advanced Clinical Practicum in Speech Pathology (externship)
      - SPED 846V Diagnostic Methods in Communicative Disorders
      - SPED 848V Advanced Audiology
      - SPED 851V, Seminar in Speech Pathology
      - SPED 870V, Seminar in Special Education
      - SPED 899V, Thesis (6 hrs.)
   2. Elective Courses:
      - Students may choose any of the courses in the area numbered 800V or above, contingent upon advisor approval.
5. Thesis:
   - Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of the committee, following oral examination, which may include questions of a comprehensive nature over the curriculum as well as the thesis.

Master of Arts: 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 includes a comprehensive 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. Admission to the University of Nebraska at Omaha Graduate College. The Miller Analogies Test (MAT) is required for initial entrance into the program.
2. Two letters of recommendation from people who know your undergraduate work well must be submitted to the department before the application can be processed.
3. 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).
4. Have successfully completed a minimum of twenty-four semester hours of work preparatory to admission to the major. These hours are to include the following courses or their equivalents:
   - SPED 140, Introduction to Communication Disorders
   - SPED 433, Speech Reading and Auditory Training
   - SPED 437, Hearing Disorders
   - SPED 438, Speech Science I: Speech Mechanisms
   - SPED 439, Hearing Science
   - SPED 442, Language Development in Children
   - SPED 443, Speech Pathology I: Childhood Language and Articulation
   - SPED 444, Speech Pathology II: Rhythm and Synchronization
   - SPED 445, Speech Science II: Experimental and Applied Phonetics
   - SPED 450, Communication Disorders in the Elementary and Secondary Schools
   - SPED 451, Basic Clinical Practicum in Speech Pathology
   - SPED 475, Language Disorders in Childhood
   - PSY 213, Statistics

5. For those students who wish to work toward special state certification in the schools, advice consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field).
6. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   1. Required Courses:
      - FED 801V Introduction to Research
      - SPED 851V Advanced Clinical Practicum in Speech Pathology (schools)
      - SPED 852V Advanced Clinical Practicum in Speech Pathology (externship)
      - SPED 846V Diagnostic Methods in Communicative Disorders
      - SPED 848V Advanced Audiology
      - SPED 851V, Seminar in Speech Pathology
      - SPED 870V, Seminar in Special Education
      - SPED 899V, Thesis (6 hrs.)
   2. Elective Courses:
      - Students may choose any of the courses in the area numbered 800V or above, contingent upon advisor approval.
5. Thesis:
   - Students must present a thesis representing six semester hours of work and which is deemed satisfactory to the members of the committee, following oral examination, which may include questions of a comprehensive nature over the curriculum as well as the thesis.
4. Students may undertake 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.

5. 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 including FED 801V.

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

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

   a. Required Courses:
      FED 801V Introduction to Research
      SPED 870V, Seminar in Special Education
      SPED 872U Practicum in Special Education
      SPED 889 Thesis

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

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**Master of Science: Speech Pathology**

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

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

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

3. Pass an examination to determine adequate personal voice and speech proficiencies and adequate
correcting facility for speech (Administered by the Speech and Hearing Clinic of the University).

4. Have successfully completed a minimum of twenty-four semester hours of work preparatory to
   admission to the major. These hours are to include the following courses or their equivalents:

   SPED 433, Introduction to Communication Disorders
   SPED 437, Hearing Disorders
   SPED 438, Speech Science I: Speech Mechanisms
   SPED 439, Hearing Science
   SPED 442, Language Development in Children
   SPED 443, Speech Pathology I: Childhood Language and Articulation
   SPED 444, Speech Pathology II: Rhythm and Symbolization
   SPED 445, Speech Science I: Experimental and Applied Phonetics
   SPED 450, Communication Disorders in the Elementary and Secondary Schools
   SPED 451, Basic Clinical Practicum in Speech Pathology
   SPED 475, Childhood Language Disorders

5. 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
   certificate in elementary or secondary teaching or a special services certificate in another field.)

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

   a. Required Courses:
      FED 801V, Introduction to Research
      SPED 846V, Diagnostic Methods in Communication Disorders
      SPED 848V, Advanced Audiology
      SPED 851V, Advanced Practicum Speech(Schools)
UNIVERSITY OF NEBRASKA AT OMAHA

1. Required Courses
   FED 801V, Introduction to Research (30 hours)
   SPED 856V, Interdisciplinary Approaches in Developmental Disabilities
   SPED 860M, Introduction to the Mentally Subnormal Child
   SPED 862M, Curriculum Planning for the Developmentally Disabled
   SPED 864V, Theoretical Approaches for Teaching the Developmentally Disabled Child
   SPED 872V, Basic Observation and Student Teaching
   SPED 873V, Advanced Observation and Student Teaching
   SPED 876V, Seminar in Special Education
   SPED 875M, Language Development of Exceptional Children
   PSyc 830V, Testing and Measurement
   PSyc 831M, Psychological and Educational Testing
   SPED 812M, Reading Diagnosis and Remediation for the Elementary Classroom Teacher
   Electives...
   SPED 840M, Learning Disabilities
   SPED 848M, Emotional Development
   SPED 855M, Introduction to the Physically Handicapped
   SPED 866V, Vocational Training of the Mentally Retarded
   SPED 867V, Community Resources for the Mentally Retarded
   SPED 871V, Parent-Professional Relationship in Special Education
   SPED 886V, Methods and Materials for Teaching Gifted
   SPED 890U, Administration and Supervision of Special Education
   SPED 897U, Diagnosis and Remediation Techniques in Early Childhood Education for the Disabled

Master of Science: Resource Teaching in Learning Disabilities

Resource Teaching in Learning Disabilities is a specialized training program designed to prepare the graduate student in identification, analysis, and intervention techniques relative to children who have specific learning deficits. Since the program assumes a knowledge of "normal" development, the student should enter the program with a strong background in learning theory, child growth and development, curriculum development, and methods and techniques of teaching.

The training program is divided into three sequential steps which provide experiences necessary to develop competencies in theory, specific diagnostic and intervention skills, and practical application. The student must be comprehensively evaluated after each of the first two steps and during Step III.

Upon completion of this program, the student will receive a Master's degree in Special Education with a major in the student's chosen area of specialization. It is also strongly recommended that the student continue his/her major study at the graduate level where certification/endorsement is available at the undergraduate level.

Course Requirements:

1. STEP I (12 hours) — This is an entrance level step which will prepare the student in the theoretical aspects of learning/behavioral deficit. It is designed to give the student a foundation for the inquiry approach to problem solving. Courses for Step I include the following:
   Required (13 hours)
   SPED 840M-Learning Disabilities (3)
   SPED 848M-Emotional Development (3)
   SPED 855M-Special Education (3)
   SPED 866V-Vocational Techniques for Early Childhood (3)
   SPED 871V-Parent/Professional Relations (3)
   PSyc 856V-Learning in Children (3)
   PSyc 857V-Language and Verbal Development (3)
   PSyc 859V-Social and Personality Development (3)
   FED 898M-Growth and Learning of Children (3)

Entrance Requirements:

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

2. Teaching Certification
   A. The applicant must hold a teaching certificate from a state education agency and be eligible to teach in elementary or secondary grades or special education.
   B. Students accepted into the program without certification must complete the College of Education CORE Program. No student will be eligible to enter STEP II of the program without having first completed the CORE program.
   C. No certification and/or endorsement in areas of special education will be offered at the graduate level where certification/endorsement is available at the undergraduate level.

3. Teaching Experience
   A. Students must have completed a minimum of two years of successful teaching in pre-school, kindergarten, elementary, secondary, special education, or special services before final endorsement is recommended. It is possible for students to enter and complete the program without teaching experience, however, endorsement will not be recommended until two years of teaching has been completed.
   B. Pre-requisite courses
      Regardless of the student's major area of study coming into the program, his/her transcript must show courses, graduate or undergraduate, which relate to:

   A. Child Development - 3 hours
   B. Learning Theory - 3 hours
   C. Curriculum Development - 3 hours
   D. Student Teaching (or equivalent) - 3 hours
   E. Methods Courses - 3 hours

   5. Pre-competency Evaluation
      Upon admission to the Graduate College and prior to entering Step I, the student must make arrangements with his/her program advisor to undergo pre-competency evaluation. This evaluation will include the following:
      A. Written — this test will test the ability of the student to articulate in writing a position taken by him/herself relative to previous work or teaching experience.
      B. Interview (informal) — an interview conducted by the faculty will be used to seek information from the student relative to his past experiences, general and specific attitudes, and approaches to various problems of teaching and pupil-teacher relationships.
      C. Objective Test — this is designed to examine the student's present and past exposure to theories and terms concerning the area of special education and learning disabilities.
Comprehensive Evaluation — At the end of Step II and prior to entering Step III, each student will be given a comprehensive evaluation of Step II experiences. This evaluation will take the form of a written exam or oral exam or both. Students must attain at least an 80 percent proficiency level before entering Step III. Students not attaining an 80 percent proficiency level may: (a) be evaluated a second time, and/or (b) be recommended to take additional elective courses, or (c) be dropped from the program.

3. STEP III (9 hours) — This is the final step in the student’s program. Except for SPED 870, Seminar in Special Education, the student must demonstrate and be evaluated in those skills and competencies developed for practical use. The following courses are required:

- SPED 870V—Seminar in Special Education (3)
- SPED 874VADVANCED Observation and Student Teaching in Special Education (3)
- SPED 872V—Basic Observation and Student Teaching in Special Education (3)

Master of Science: Teaching the Emotionally Disturbed

Entrance Requirements

1. The student must have completed the following courses:
   a. Child Development — 3 hours
   b. Learning Theory — 3 hours
   c. Curriculum Development — 3 hours
   d. Student Teaching (or equivalent) — 3 hours

2. The student must demonstrate a "B" average for the last two years of coursework. The student may be granted provisional admission with less than a "B" average (but not less than 2.54) (See Graduate Catalog). The student must maintain a "B" average for graduate work.

3. The Miller Analogies Test must be taken prior to evaluation of admission application. The student must score 35 for provisional admission and 45 for unconditional admission.

4. The student will demonstrate his/her ability to articulate by writing a position paper in terms of previous work or teaching experience.

5. An informal interview with the advisor.

6. Student must hold a Bachelor’s degree with a teacher’s certification in one or more teaching areas.

7. Student must have completed two years of successful teaching before endorsement will be granted.

8. Students must fulfill all other entrance requirements as required by the Graduate College of the University of Nebraska at Omaha.

Program Requirements

1. Thirty-six (36) hours must be completed for the M.S. in Special Education with a major in Emotionally Disturbed and endorsement as a teacher of the Emotionally Disturbed, K-12.

2. The student will be required to pass a 2-hour comprehensive competency examination at the end of each step. This exam will be scheduled once a term.

3. Courses

   a. Child Development — 3 hours
   b. Learning Theory — 3 hours
   c. Curriculum Development — 3 hours
   d. Student Teaching (or equivalent) — 3 hours

Electives

- SPED 806V, Interdisciplinary Approaches to Developmental Disabilities — 3 hours
- PSY 844M, Abnormal Psychology — 3 hours
- PSY 845M, Personality Theories — 3 hours
- PSY 859M, Psychology of Exceptional Children — 3 hours
- PSY 851V, Advanced Educational Psychology — 3 hours
- Comprehensive Examination

Required Courses

- SPED 885V, Diagnosis of Learning Disabilities — 3 hours
- SPED 883V, Practicum in Teaching Emotionally Disturbed — 3 hours
- SPED 875M, Childhood Language Disorders — 3 hours
- SPED 881M, Classroom Techniques of Behavior Control — 3 hours
- Electives
- PSY 896V, Advanced Diagnosis of Learning Disabilities — 3 hours
- PSY 811V, Diagnostic and Remedial Instruction in Reading — 3 hours
- PSY 831M, Psychological and Education Testing — 3 hours
- PSY 863M, Techniques of Programmed Instruction — 3 hours
- PSY 856M, Learning in Children — 3 hours

CRIMINAL JUSTICE

Degree Programs

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

Admission Requirements for the Criminal Justice Graduate Program

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

Master of Arts

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

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

- Required Core Courses
  - 15 hrs.
    - 9V, Criminal Justice Planning and Innovation
    - 9IV, Seminar in the Administration of Justice
    - 92V Criminal Justice Research Theory and Methodology
    - Elective Courses
      - 3 hrs.
        - (student selects three (3) courses with advisor’s approval)

- Comprehensive Examination

- Master of Science

   The Master of Science degree is a 36 credit-hour non-thesis program designed to emphasize research, planning, and administration, while simultaneously providing fundamental course work. This degree
DRAMATIC ARTS

Master of Arts

An applicant for graduate study in Dramatic Arts must present a minimum of 15 undergraduate semester hours in appropriate courses in dramatic arts beyond the introductory course. Deficiencies must be made up during the first year of graduate study.

The graduate program in dramatic arts is designed to insure that students are familiar with the field as a whole and prepared to demonstrate their mastery in a written comprehensive examination at the conclusion of their course work. All candidates are required to take a course in research methods and to complete one of the following plans of study.

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

Option II: Successful completion of 33 semester hours of course work including at least 24 hours in V-level courses, plus a final project (3 credit hours) in playwriting, directing, acting, scenic design, costume design, or lighting design which will be orally defended upon completion.

ECONOMICS

Applicants to the graduate program in Economics must have or complete the equivalent of 15 undergraduate semester hours in Economics.

Master of Science

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

Core (15 hours)

ECON 820V, Microeconomic Theory
ECON 822V, Macroeconomic Theory
ECON 830M, Quantitative Applications in Economics and Business*
ECON 839V, Research Methods
ECON 839V, Econometrics

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

Suggested Specializations

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 820V, Microeconomic Theory</td>
<td>12 hours</td>
</tr>
<tr>
<td>ECON 822V, Macroeconomic Theory</td>
<td>12 hours</td>
</tr>
<tr>
<td>ECON 830M, Quantitative Applications in Economics and Business*</td>
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</tr>
<tr>
<td>ECON 839V, Research Methods</td>
<td>12 hours</td>
</tr>
<tr>
<td>ECON 839V, Econometrics</td>
<td>9 hours</td>
</tr>
</tbody>
</table>

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

I. Real Estate and Land Use Economics ........................................ 15 hours
   DA 80V, Real Estate and Land Use Economic Theory
   DA 810V, Current Problems in Real Estate
   DA 899V, Thesis** ......................................................... 6 hours
   Elective ......................................................................... 6 hours

II. Individual electives are the same as those described under the M.S. program.
   Electives include ECON 899 Thesis ........................................ 6 hours

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

EDUCATIONAL ADMINISTRATION-SUPERVISON AND FOUNDATIONS

Programs in Educational Administration-Supervision

Master of Science

An applicant for admission to the program for the Master of Science degree in educational administration and supervision (with endorsement) must hold a Bachelor's degree from an accredited institution and be certified at either or both the elementary or secondary teaching level. The degree of Master of Science will be awarded on the basis of study.

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

As part of the 36 hour program, graduate course work in related fields may be taken, up to more than 12 semester hours.

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

Specialist in Education

An applicant for admission to the Specialist in Education degree (with endorsement) in the Department of Educational Administration - Supervision and Foundations must be certified at either or both the elementary or secondary teaching level, hold a Master's degree from an accredited university, and present the evidence of having had appropriate administrative experience.

An applicant for admission to the Specialist in Education degree (without endorsement) in the Department of Educational Administration - Supervision and Foundations must hold a Master's degree from an accredited institution.

These programs of study are designed to best harmonize the student's needs and ambitions. Articulated with the Master's Degree, the total program must accumulate to not less than 66 graduate semester hours.

The program is carried out under the direction of a graduate faculty supervisory committee. Prior to admission to candidacy, all students must successfully pass the designated qualifying examination.

Program in Educational Foundations

Master of Science

Urban Education

The Master of Science program in Urban Education is designed for graduate students who are interested in exploring the contemporary issues confronting urban educational institutions. The range and depth of the inter-disciplinary course offerings in this program provide varied, challenging, and relevant experiences for both classroom teachers and community workers in all levels of financial assistance. Students in this thirty-hour program will increase their competence and expertise in functioning not only in the educational setting of the urban classroom, but also within the wider community milieu.

It is expected that students will be able to critically analyze the logic and structure of the educational institutions and the inter-relationship of education and other primary social forces. The range of courses offered in the program will be designed specifically to facilitate an analysis of the historical, social, and cultural characteristics of society and urban scene.

It is also expected that students will develop an awareness of and the ability to handle the learning problems of urban youth. The program emphasizes a cultural awareness and appreciation of the varied life-styles within such settings, and the skills to function effectively in solving these educational problems.

In order to enter this program, a person must hold a Bachelor's degree from an accredited institution and submit a completed application form for graduate students and a transcript of all previous college work.

Required Course:

FED 801V, Introduction to research ........................................ 3

Select six of the following courses:

FED 802V, History and Philosophy of Education ....................... 3

DEGREE REQUIREMENTS

ENGLISH

Master of Arts

To be admitted to graduate study in English, a student should have completed at least eighteen credit hours in undergraduate English courses above the freshman level with an average grade of "B" or above.

All candidates for Master of Arts degrees in majors in English are required to take English 810V (Introduction to Literary Research) within the first nine hours of graduate study, and to complete the following plan 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 by a faculty advisor as part of the student's 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 credit:

English 806V, 808V, 809V, 810V, 813V, 820V, 894V, 912, 915.

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

1. Satisfactory completion of the following four courses:
   a. Eng. 858M, Introduction to Linguistics
   b. Eng. 878M, Structure of English
   d. Eng. 896M, Studies in Linguistics (Teaching English as a Second Language)

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

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

The Certificate in Course, granted by the Board of Regents, is not a certificate to teach in the public schools of Nebraska or any other state. It is an academic credential only. Students who want certification to teach in the public schools must follow the procedures and courses of study prescribed by the College of Education. The following seminars for certification to teach English as a second language are offered:

The major areas of educational administration and supervision (with endorsement) will be offered by the Department of Educational Administration - Supervision and Foundations. The range and depth of these seminars in major periods vary in emphasis and may be repeated for credit.

The Master of Arts degree is designed to provide a broad scientific background for students who wish to gain greater proficiency in the natural sciences. The program for the Master of Arts with a major in General Science is designed to provide students with the basic knowledge and skills necessary to determine if an applicant is adequately prepared for graduate work, and will supervise the final oral examination. Each candidate will be assigned an advisor who will be responsible for the candidate's curriculum and thesis in accordance with the policies established by the Graduate Committee and the Graduate Council.

Pertinent Requirements:

An applicant for admission to the graduate program must present a Bachelor's degree.

Degree Requirements: The degree requires a minimum of thirty-six (36) semester hours for completion.

Graduate students must complete a minimum of thirty (30) semester hours of approved course work and, in addition, submit a thesis, credit for which will be allowed to a maximum of six (6) semester hours. Courses leading to the degree will be distributed across the natural science areas according to the needs of the
student, with a maximum of twenty (20) semester hours (not including thesis) allowed in any one field. In general, the student's program will include at least one course in each of the four natural science areas. Any deficiency in the prerequisites must be made up but may not be counted as part of the thirty-six (36) hour graduate requirements.

GEODESY AND GEOLoGY

Master of Arts

The Department of Geography requires a minimum of 24 semester hours of approved graduate work in geography or selected cognate disciplines, plus up to 6 semester hours of thesis for a total of 30 semester hours.

GERONTOLOGY

Certificate in Gerontology

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

Requirements

1. The applicant must be a graduate student at the University of Nebraska at Omaha and must have completed the equivalent of 15 semester hours of approved graduate-level coursework in Gerontology.

2. Students must complete the following coursework:
   - At least one course in each of the four natural science areas.
   - At least one course in each of the four social science areas.
   - At least one course in each of the four humanities areas.
   - At least one course in each of the four arts areas.

3. Students must present a minimum of 15 undergraduate semester hours in Gerontology, including physical and human geography and cartography.

4. The applicant must have a GPA in geography of at least 3.0 on a 4.0 scale.

Master of Science

Professional Specialization: Students must complete a professional specialization in consultation with the advisor. Specializations may include coursework in health education, physical education and recreation/leisure studies.

HPER Electives: Elective HPER courses, approved by the advisor, must be taken as needed to bring the HPER courses in the student's program to a minimum of twenty-four hours and a maximum of thirty hours.

General Electives: Related courses that are not part of the HPER program may include coursework in health education, physical education and recreation/leisure studies.

HPER Electives: Elective HPER courses, approved by the advisor, must be taken as needed to bring the HPER courses in the student's program to a minimum of twenty-seven hours.

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

HISTORY

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.

3. An incoming student, not having Historical Research (Hist 493) or its equivalent, must take Hist 493 on a non-graduate credit basis.

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:

1. A minimum of 24 semester hours of approved graduate courses in History, of which 9 must be in courses open only for graduate registration, i.e., seminars. The other 15 hours may be either lecture courses or courses numbered 600 or higher. A balance of 15 and 9 must be maintained between major and minor areas of study. Seminar study should be divided two and two, depending upon the student's area of concentration.

2. A minimum of 27 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 as seminars in history or international affairs. The minor department must be consulted to determine the student's eligibility to do graduate work in that department.

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

M.A. Program without Thesis (Option II)

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six (36) hours of course work, at least half of which must be earned in courses open only to graduate students (V-Grades). No more than nine (9) hours of credit may be taken by a student under courses numbered 600 or higher. A balance of 15 and 9 must be maintained between major and minor areas of study. Seminar study should be divided two and two, depending upon the student's area of concentration.

2. In addition to showing broad competency in history, the candidate must give evidence 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 any other field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six hour minor may be granted by the advisor's permission, and the approval of the Graduate Program Committee.
Admission Requirements: Admission to a degree program is based on evidence of mathematical ability. An applicant is usually expected to have completed fifteen acceptable credits in undergraduate mathematics beyond the first year level, and to have an overall average of B or better during the last two undergraduate years. In some cases where the above criterion is not met, a provisional admission may be granted provided the applicant is willing to take some preliminary course work that will not apply towards the degree.

Master of Science

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

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

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

c. Complete any required additional courses to bring total hours beyond the 12 hour level in Textiles, Clothing and Design or equivalent, in a related area such as Art or Architecture. The Graduate Area Committee will consider the qualifications for admission on the basis of work done in Textiles, Clothing and Design and leading to a Master of Arts or Master of Arts degree and will make recommendations to the Graduate College. Deficiencies as assigned on an individual basis may be removed concurrently with graduate studies.

Education and Family Resources - Education and Family Resources is included in the Interdepartmental area.

MATHEMATICS

Application for a graduate degree program in Home Economics is to be made to Graduate Studies, Lincoln Campus. In addition to this, an important step to initiate a graduate program is to consult with the chairperson of the appropriate department at the University of Nebraska-Lincoln. The undergraduate work must have included the equivalent of the four courses listed above.

For a graduate degree in Home Economics, it will be necessary to take Home Economics courses on the Lincoln campus.

Interdepartmental area offers graduate work leading to the Master of Science or Master of Arts degree. Students applying for study in the Interdepartmental Area must hold a Bachelor's degree in Home Economics or a related field. The undergraduate work must have included the equivalent of the four courses listed above.

The master's degree in Home Economics may be completed under Option I, II, or III. The student must then elect the thesis research may be done in any one of the four cooperating departments.

Human Nutrition and Food Service Management - Candidates for the Master of Science degree in Human Nutrition and Food Service Management must hold a Bachelor of Science degree or a Bachelor of Arts degree from an accredited institution and by completing a minimum of 12 hours of courses in the areas of nutrition and food service management.

Separate programs leading to the Master's degree are also offered by the Department of Human Nutrition and Food Service Management, Department of Human Development and the Family, and the Department of Textiles, Clothing and Design.

Human 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 institution and have completed undergraduate preparation equivalent to that required in the Basic General Education Core in Human Sciences plus at least 10 hours exclusive of freshmen courses in Business, in Microbiology, in Biology and in Physiology for a total of at least 18 hours in Human Nutrition and Food Service Management, Chemistry and Biological Science.

Separate programs leading to the Master's degree are also offered by the Department of Human Nutrition and Food Service Management, Department of Human Development and the Family, and the Department of Textiles, Clothing and Design.

Separate programs leading to the Master's degree are also offered by the Department of Human Nutrition and Food Service Management, Department of Human Development and the Family, and the Department of Textiles, Clothing and Design.
To obtain the Master of Arts degree, the student must:

a. Earn a total of 36 credits in mathematics.

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

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

Admission Requirements for Master of Arts

1. A student meeting the following two conditions will be admitted to the M.A.T. program:
   a. Has state certification for teaching secondary school mathematics.
   b. Has maintained at least a “B” average in previous mathematics coursework including at least two courses beyond elementary calculus.

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

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

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

b. Include in his program mathematics courses 801T, 803T, 804T, 823J-870J, and at least one mathematics course at the 800M level or above (Courses 823J-870J may be waived if the equivalent undergraduate courses have been taken).

c. Include in his program secondary education courses 830V, 833V, and at least one additional secondary education course selected from 830V, 833V, 839M, 846V, or 936V.

d. As listed under the Master of Science above.

e. As listed under the Master of Science above.

POLITICAL SCIENCE

Admission Requirements: An applicant for admission to the Master of Arts or Master of Science program must present, as a prerequisite, a minimum of fifteen semester hours of undergraduate course work in Political Science or their equivalent as determined by the departmental Graduate Admissions Committee. For unconditional admission the applicant must have at least a 3.0 grade point average in these courses. In addition, the department requires two letters of recommendation from persons who are in a position to evaluate the applicant’s potential for graduate study before an applicant can be considered for unconditional admission.

Master of Arts

Degree Requirements: The program is intended for those who expect to pursue a doctoral degree. The student must satisfactorily complete thirty semester hours, twenty-four of course work and six of thesis supervision. Students must maintain a B (3.0) average in their course work, receiving no more than one C. The thesis is expected to be a major piece of scholarship. From the four subfields of Political Theory, Comparative Politics and International Politics, the student will select an emphasis in two. Twelve hours of course work will be taken in one area of emphasis and six hours in the other. The remaining course work will be elective and may include cognate courses in related disciplines. Of the twenty-four hours of course work twelve hours must be at the 800 level, including 800V (Research Methods). There will be comprehensive examinations in the two emphasized fields and an oral defense of the thesis.

Master of Science

Degree Requirements: This advanced non-thesis program is specifically designed to enhance career goals in the public service, education and business fields. Thirty-six hours of course work are required with a minimum B (3.0) average in their course work, receiving no more than one C. Degree candidates must pass comprehensive examinations covering their areas of study. The aim is to tailor each student’s program to fit his or her personal or career interests.

PSYCHOLOGY

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing the experimental method, data collection, statistical analysis, and report writing; Graduate Record Examination scores on the Verbal, Quantitative, and Advanced Psychology sections.

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

Master of Arts

To complete the M.A. degree with a major in psychology, the student must present 30 hours of graduate course work in psychology, or 21 hours in psychology plus 9 hours in a related minor field. Up to 6 hours of thesis credit are to be included in this total.

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

I. Psychology 904 (Practicum in Learning)
II. Psychology 936 (Practicum in Personality)
III. Psychology 921 (Practicum in Perception)
IV. Psychology 944 (Practicum in Social Psychology)

The student must earn a grade of at least B in the four required practicums. If a C is earned, or a withdrawal (W) is recorded, in one practicum the course may be repeated; or the other in the group may be taken. Should two such grades (C or W) be recorded, the student will be dropped from the psychology graduate program. Under special circumstances (e.g., a W necessitated by illness, a unique academic record, etc.) the departmental Graduate Committee may permit a petition for exemption from this rule.

The remainder of the student’s course work is elective, but must be planned in conjunction with the academic advisor, in order to meet the individual needs and interests. Psychology 800V is a non-credit course intended to familiarize the beginning graduate student with the profession of psychology and is required of all graduate students in psychology. The student may choose one of the following areas: quantitative, philosophical, general experimental, social, personality, developmental, educational, and industrial/organizational psychology. Final determination of a student’s plan of study always resides with the advisor and the department. To meet the graduate college requirements, a student must take at least half of the work in courses which are open only to graduate students.

Master of Science

To complete the M.S. with a major in industrial/organizational psychology or the M.S. with a major in educational psychology, the student must present 36 hours of graduate course work in psychology, or 24 hours in psychology plus 12 hours in a related minor field. The M.S. degree has the same practicum requirements as the M.A., and all rules concerning practicum courses are the same in both degree programs, as well as the requirement of Psychology 800V. Additional required course work may be designated by the department. This will ordinarily include up to 3 hours of independent study. Final determination of a student’s plan of study always resides with the advisor and the department. To meet the graduate studies requirements a student must take at least half of the work in courses which are open only to graduate students.

Specialist in Education

The Ed.S. degree requires completion of sixty-six graduate hours including those taken for the Master’s degree. The requirements for this degree are the same as for those leading to certification as a School Psychologist.

Doctor of Philosophy

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and in developmental psychology. Students may be considered for admission to a doctoral program if they have completed or are completing a Master’s degree which includes a demonstration of research capability and writing ability. There is no generally specified language or research skill requirement, but each student is expected to demonstrate proficiency in one or more languages, research skills, or knowledge in collateral research areas appropriate for the student’s research interests as determined by his Supervisory Committee and the department Graduate Committee. Specific requirements and procedures for the Ph.D. degree are printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.
Summary of Procedure for the Doctor of Philosophy Degree

This summary of procedure should be studied carefully in connection with the Graduate College calendar.

1. Admission to the UNL Graduate College by the evaluation of official transcripts presented in person or by mail prior to registration.

Requirements

2. Registration after consultation with advisers in major and minor departments.

3. Appointment by the UNL Graduate Office of a supervisory committee on the recommendation of the departmental or area Graduate Committee.

4. Submission to the UNL Graduate Office of a program approved by the supervisory committee setting forth the complete plan of study for the degree prior to completion of more than half of the minimum requirements.

5. Satisfactory completion of foreign language or research tool requirements set forth in the approved program and passing of comprehensive examinations in major and minor or related fields when the student's program of courses is substantially completed.

6. Submission to the UNL Graduate Office of a report from the supervisory committee on the specific research for the dissertation and progress to date.

7. Admission to candidacy for the Ph.D. degree by filing a report in the Graduate Office of the passing of the comprehensive examinations and the completion of language and research tool requirements (at least seven months before the final oral examination). The term of candidacy is limited to three years.

Filing of an application for the degree at the Registration and Records Office, Information Window, 208 Administration Building at UNL. This application is effective during the current term only. It must be renewed at the appropriate time if requirements for graduation are not completed until during a later term.

9. Presentation of the dissertation and the abstract to the members of the reading committee in sufficient time for review and approval, which must be obtained at least three weeks prior to the final examination.

10. Presentation to the Graduate Office of two copies of the approved dissertation, three copies of the approved abstract, and the application for the final oral examination at least three weeks prior to the date of that examination.

11. Pasing of any required final oral examination.

12. Deposition of two copies of the dissertation in proper form, one copy of the abstract, and a signed agreement for microfilming the dissertation and publication of the abstract, with the UNL Director of University Libraries. Delivery of the certificate of deposit, signed by members of the supervisory committee, the UNL Director of University Libraries, and UNL Comptroller, to the Graduate Office. In addition, one bound copy of the dissertation is to be deposited with the student's major department.

Professional Programs in the Area of School Psychology

Application

Admission to the programs in school psychology must be filed with the School Psychology Committee of the Psychology Department. The application should include official transcripts of all college work, scores on the Graduate Record Examination Application, and three letters of recommendation. Students who have not been admitted to Graduate Studies previously must apply to the Director of Admissions, also. Applications must be completed by April 1 for the following Fall semester. A second application period is possible, should openings exist. These applications must be completed by November 1 for the following Spring. Before a final decision is made concerning admission the applicant must be interviewed by at least two members of the School Psychology Committee.

School Psychologist

Students may take work leading to a recommendation for certification as a school psychologist. A minimum of thirty semester hours of work beyond the Masters degree is required for the recommendation. Filing of an acceptable plan of study with the Graduate Office will be required on admission to the program. Students will arrange their programs according to the subject matter areas below. In addition to the courses required for the Masters degree, the student must complete requirements for the Master of Science in Educational Psychology or its equivalent. Since individual students may have widely variant backgrounds, considerable flexibility is allowed. However, the final decision on the appropriateness of a program rests with the Psychology Department. Students should consult the School Psychology Committee when starting their studies in order to facilitate individual program planning. The student's program must include from 4 to 6 credit hours of supervised practicum. Each practicum is developed to meet individual student needs and must be approved by the School Psychology Committee before the student is allowed to enroll.

5. Internship in School Psychology (Psychology 998)

An internship totaling at least 1000 clock hours must be completed before the student will be recommended for endorsement as a school psychologist. This will normally be taken after the student has completed all other requirements, including both practicum experiences. The intern must have an endorsement as a psychological assistant. The internship is usually completed in one of the Omaha-area schools but other sites are possible. The exact details of the internship are worked out through negotiations involving the student, his advisor, and a representative of the psychology system involved. Results of these negotiations must be approved by the School Psychology Committee. The student may sign up for 3 credit hours for each semester of internship completed.

Psychological Assistant

Students who are taking work toward endorsement in Nebraska as a Psychological Assistant must simultaneously complete requirements for the M.A. or M.S. Those seeking such endorsement are encouraged to apply to the Psychology Department at the same time they make application for degree candidacy. The student must file courses in Psychology, the psychology courses are included in the plan of study for the degree. In any event, students must have been accepted in this program before enrolling in Psychology 853V or 854V. Applications for this endorsement should be submitted to the Psychology Department and three letters of recommendation are required. Required courses in this program are: Psychology 831V (431), 800V, 853V, 854V, and 878V. Also, one of the following is required: Psychology 859M (459), 855M (455), or PSYCH 860M (460). The student must also have had course work in both learning and developmental psychology.

Recommendation for Certification

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

PUBLIC ADMINISTRATION

Masters 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 those already in the public service who are seeking professional training; (3) for research or teaching in this field.

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 whileothers 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.

Students must be admitted unconditionally to the M.P.A. program or the program will be authorized to provide them credit for certain graduate courses additional course work may be prescribed which must be completed before unconditional admission is accorded. If an applicant has more than 9 hours of deficiencies he/she will be advised to remove these before being considered for any type of admission. These additional courses do not carry graduate credit, but other courses for graduate credit may be taken simultaneously if the prerequisites for these courses have been met. No student will be permitted to take a graduate course without having had an introductory course in Public Administration unless expressly granted a waiver in writing by the Department Graduate Committee.

The student will be assigned an adviser in the Public Administration Department. If the student chooses an option other than General Public Administration or Local Government, the adviser from that field will also be assigned to the student.

Degree Requirements

Thirty-nine hours consisting of thirty hours of course work plus 3 hours of internship in a public agency (or 4 months. In the event the governmental agency or jurisdiction sponsoring the internship cannot provide compensation, the student must plan on taking one or more courses on the Lincoln campus expediently.

Admission to Candidacy for Graduate Degree

It is the student's responsibility to make application for candidacy for the degree as soon as he/she can qualify for admission. The qualifications are: (1) the scores on the Graduate Record Examination 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-; and (4) removal of all deficiencies specified for admission.

At a rate no degree can be awarded in the same semester as candidacy for the degree is approved.

Applications for candidacy must be filled out by the student — in consultation with the 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 in the Graduate Office and copies should be provided for 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 minor is concerned, the minor adviser if the minor is concerned, and the approval of the UNO Dean for Graduate Studies and Research.

Courses Required of all Options

P.A. 840M, Public Budgeting
P.A. 841M, Public Personnel Management or 846V Seminar in Public Personnel Administration if credit has been earned in 441/414M
P.A. 840V Seminar in Research Methods in Political Science and Public Administration
P.A. 842V Seminar: Introduction to Public Organizations
P.A. 844V Seminar in Organization Development in Public Agencies
P.A. 845V Seminar in Advanced Management Analysis in Public Agencies
P.A. 846V Seminar in Public Financial Administration
P.A. 830U, Internship

General Public Administration (15 hours from the following selected list in consultation with Adviser. It is possible under exceptional circumstances to substitute other courses with approval of Adviser.)

P.S. 804M, The Legislative Process
P.S. 805M, The Judicial Process
P.A. 843M, Municipal Administration
P.A. 810V Seminar in Public Administration Econ 850M, State and Local Finance
P.A. 815V Seminar in Public Law
P.A. 830V Seminar in Public Policy
P.A. 846V Seminar in Public Personnel Management
P.A. 847V Seminar in Public Policy
P.A. 881V Urban Seminar in Metropolitan Planning and Development
P.A. 894V, Research in Public Administration

Gerontology Option (15 hours to include courses from the following selected list in consultation with Adviser to fit the student's particular needs.)

Ger 811M, Applied Social Gerontology
Ger 855M, Health Aspects of Aging
Ger 893M, Gerontology Psychology
Ger 892M, Special Studies in Gerontology
Sw 814V, Social Policy for Seniors
Sw 862M, Social Welfare and Institutional Racism

Local Government Option (15 hours from the following selected list in consultation with Adviser. It is possible under exceptional circumstances to substitute other courses with approval of Adviser.)

Geog 812M, Urban Geography
P.A. 843M, Municipal Administration
Econ 856M, State and Local Finance
P.A. 810V Seminar in Public Administration
P.A. 830V Seminar in Public Policy
P.A. 860V Seminar in Administrative Law
P.A. 881V Urban Seminar in Metropolitan Planning and Development
Econ 885V Seminar in Local Government
P.A. 892V, Readings in Public Administration
P.A. 894V, Research in Public Administration

The Planning Option (15 hours to include CRP 811 and CRP 828 plus nine hours of course work from the following selected list in consultation with Adviser.)

This option stresses the planning process and related skills and techniques. Students selecting this option should plan on taking one or more courses on the Lincoln campus in order to complete the program expeditiously.

Required courses:

CRP 811, Urbanization and Planning in the U.S.
CRP 813, Planning Process and Theory
CRP 415/415, Housing and Community Development
CRP 822, Research Methods for Planning
CRP 828, Planning Administration and Implementation
CRP 897, Seminar in Planning
CRP 899, Special Problems in Planning
CRP 913, Planning and the Natural Environment
CRP 917, Planning with Minority and Low Income Groups
CRP 924, Human Resource Planning

Public Works-Civil Engineering Option (15 hours from the following selected list in consultation with Adviser.)

Four courses of supplemental study available: Transportation, Sanitary, Water Resources and Design and Construction.

The objective of the program is to develop a broad based Civil Engineering plan of study for public administration students who have little or no formal engineering training. A tentative list of Civil Engineering courses is required before the engineering background is presented below. Students will be encouraged to select courses from at least three of the four fields of interest in order to encourage breadth in educational experience. Other courses may be available in Public to the student with instructor's consent or if sufficient student demand warrants additional offerings.

Transportation
CE 468, Traffic Engineering
CE 468A, Transportation Geometrics
CE 485, Urban Transportation Planning
CE 486, Transportation Planning and Economics
Sociology

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 people individually, in families, groups, and collective associations, with communities, societies, and organizations with a view to helping in the resolution of problems which cause stress in social transactions.

In these endeavors, social workers are employed in public and private counseling agencies and services, medical settings, schools, residential and community agencies providing care for the mentally ill and retarded, court and correctional agencies, community planning, and development agencies and programs. Their endeavors and interventions are designed to promote more effective functioning of society as it struggles to "provide for the general welfare" as well as to help the people, families, groups, and institutions within the society toward self-sufficiency.

Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence.
2. There are two programs leading to the Master of Social Work degree. The Advanced Standing Program, for students with an approved Bachelor's degree in social work, requires 42 credit hours of graduate study in social work, which may be completed in a minimum of two semesters and a full summer. The Two Year Program for students with a Bachelor's degree not in social work, requires the same 42 credit hours plus up to 22 graduate credit hours of social work foundation courses. Specific foundation course requirements are determined on the basis of each student's previous course work and/or tested knowledge.
3. Details about research, practicum, and other course requirements may be obtained from the School of Social Work.

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

### SOCIETY

Applicants for admission to the graduate program in sociology must present a minimum of 15 undergraduate semester hours in sociology including courses 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 theories 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.

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 812V and a minimum of 21 additional graduate semester hours, including at least nine semester hours of 800V-level work. A thesis is required. The student must pass four comprehensive examinations.

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

### Master of Science

A student contemplating this degree is expected to complete Sociology 801V and a minimum of 27 additional graduate semester hours, of which are from the 800V-level selection. Courses in applied theory (3 hours) and methods (nine hours) are required, as well as development of an area of specialization. Comprehensive examinations are required in theory, methods, and the area of specialization. In addition, the student must complete satisfactorily six-semester-hour equivalents of a supervised work practicum and coordinate internship course related to his/her area of specialization, and write an acceptable paper 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.

### TEACHER EDUCATION

### Masters of Arts

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

### Master of Science

Admission to the Program

1. An applicant must hold a valid elementary school teaching certificate.
2. Unconditional admission is granted if/and when:
   a. undergraduate major average is 3.0 or above.
   b. Graduate Record Examinations are completed with acceptable scores.
   c. any undergraduate deficiencies are made up.
3. Graduate Record Examinations (Verbal, Quantitative, and Advanced Education) must be taken before a second registration. An acceptable score must be earned.
Second Education

Quantitative, and Advanced GRE Tests must total at least 1200. Students arc expected to file their applications and be evaluated and processed to the Graduate College. A raw score of 35 on the MAT is required for initial entrance into the program.

Degree Program

I. SEO Core Requirements
   a. FED 801V, Introduction to Research
   b. SPED 911, 912, 833V, Educational Measurements
   c. Statistics
   d. Statistics
   e. EEO 844V, Seminar in Elementary Education
   f. EDAD 846V, Administration and Supervision in Elementary Schools
   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 departmental advisor. Possible choices include: Reading, Early Childhood Education, Gifted Education, Guidance, Improvement of Instruction, Learning Disabilities, Urban Education, Educational Administration, Educational Media, or an academic concentration, etc.
   III. Electives
      Non-Degree-Seeking Students
      Students who are not planning to pursue the program leading to a Master’s degree are allowed to take courses for which they meet the prerequisites. Their graduate advisor will confer with them in planning for such courses.

Reading

The Master of Science degree with a major in reading conforms to standards of the International Reading Association for 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.

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

I. Core Professional Courses
   a. SPED 911, 912, 833V, Educational Measurements
   b. FED 801V, Introduction to Research
   c. SPED 911, 912, 833V, Educational Measurements
   d. Statistics
   e. EEO 844V, Seminar in Elementary Education
   II. Related Professional Courses
      a. Including Instruction to Research and selected work in such areas as instruction and general education, elementary education, secondary education, special education, and psychology.
   III. Related Cognate Courses
      a. Including selected work in such areas as guidance and counseling
      b. or for the various subject areas mentioned under sections I and II.

Secondary Education

Major in Secondary Education

Programs in Secondary Education are developed on an individual basis by the student and the advisor. They are designed to extend academic background in the instructional skills of secondary school teachers. 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.

AREA Master of Science (with Minor)

<table>
<thead>
<tr>
<th>Courses</th>
<th>HOURS</th>
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</thead>
<tbody>
<tr>
<td>I. SEO Core Requirements</td>
<td>9</td>
</tr>
<tr>
<td>I. SEO Core Requirements</td>
<td>12</td>
</tr>
<tr>
<td>II. Professional Supporting Work</td>
<td>6</td>
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<tr>
<td>II. Professional Supporting Work</td>
<td>6</td>
</tr>
<tr>
<td>III. Related Professional Courses</td>
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</tr>
<tr>
<td>IV. Related Academic Courses (by advisement)</td>
<td>12-18</td>
</tr>
<tr>
<td>Total: 36 hours</td>
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</tbody>
</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 of types included in each are indicated where appropriate.

AREA Master of Science (without Minor)

<table>
<thead>
<tr>
<th>Courses</th>
<th>HOURS</th>
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</thead>
<tbody>
<tr>
<td>I. SEO Core Requirements</td>
<td>9</td>
</tr>
<tr>
<td>II. Professional Supporting Work</td>
<td>6</td>
</tr>
<tr>
<td>III. Related Professional Courses</td>
<td>3-21</td>
</tr>
<tr>
<td>IV. Related Academic Courses</td>
<td>6-18</td>
</tr>
<tr>
<td>Total: 36 hours</td>
<td></td>
</tr>
</tbody>
</table>
Sed 9. Improvement of instruction for appropriate subject area

II. Professional supporting work

Sed 833V, Analysis of Teacher Behavior
Sed 846V, Simulation Gaming laboratory
Sed 830V, Seminar in Application of Non-Verbal Communication Theory
Sed 827V, International Curriculum Practices

III. Thesis (Sed 899)

IV. Related Professional Specialization courses and / or Academic courses

Total: 30 hours

Students who seek the Master of Science degree must take a written comprehensive examination. The examination is administered in two parts. Part I must be taken after the student has completed 18 hours of graduate work and before more than 24 hours are completed. This portion of the examination will deal with concepts common to the programs of all students who enroll in the Department.

Part II of the examination is administered during or after the semester or summer session in which the last course of the program of studies will be completed. This portion of the examination deals with those concepts that are unique to each student's program and may also examine areas of weakness revealed by Part I.

Registration for this part of the 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.

URBAN STUDIES

Master of Science With a Major in Urban Studies

This is a professional graduate degree which is designed: (1) to prepare students for human service careers in an urban setting; (2) for research or teaching in this field; (3) for those already involved in urban programs and are seeking additional professional training.

Qualified urbanists are being sought by a wide range of employers. Private corporations as well as public agencies are seeking employees who have a broad range of technical skills and an understanding of the problems of contemporary urban society.

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

For a student to be admitted unconditionally to the M.S. program he/she must have an undergraduate grade point average of at least 3.00 on a 4.00 system. In addition, if the student's undergraduate preparation in the social sciences is insufficient, additional preliminary work may be prescribed which he must complete before he is accorded unconditional admission. These additional courses do not carry graduate credit, but other courses for graduate credit may be taken simultaneously.

Degree Requirements

Thirty-six semester hours of course work are required. A core of six required courses shall be completed, and nine credit hours must be taken from one of three areas of concentration. The required courses include Urban Studies 801V, 802V, 803V, 804V, and a graduate course in research methods. Courses applicable to the area of concentration may include but are not necessarily restricted to: Community and Regional Planning 811M, 813M, 815M, 926; Public Administration 805V, 843M, 881V; Sociology 810M, 814M, 875M; Gerontology 810M, 835M, 848M; Counseling and Guidance 800V, 839M, 879M; Geography 812M, 880V, 881V. A maximum of nine hours of optional credit may be selected from Economics 831M, 832M, 833M; Sociology 805V, 843M, 847M; Geography 800M, 813M, 821V; or any of the courses listed above, subject to approval. Eighteen hours of the course work must be at the 800V level.

The GRE must be taken during the first semester of enrollment. A comprehensive final examination is required, but a thesis is not required.

NON DEGREE AREAS

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

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

Curriculum and instruction
This area includes those offerings which have or could have a broad (K-12) multi-grade level application.

Oxford in this area and having the Curriculum and Instruction prefix (CI) are meant to serve students within the education profession by broadening their skill levels, making available merged talents of collegiate faculty and functioning within different or multi-level educational settings.

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

Gerontology
The Gerontology Program does not offer a degree. Graduate courses are offered to fulfill requirements for a minor field or as selected courses on a plan of study. Therefore, the courses offered are not concentrated in one particular area, but are offered in a variety of areas to afford the student the opportunity of specializing in Gerontology within his major field of study or as a non-degree student.

Persons admitted to the Gerontology Program may earn the Certificate in Gerontology upon completion of at least fifteen semester hours of coursework in gerontology plus an approved practicum. The Certificate in Gerontology program can serve as a cognate area for graduate candidates in many of the human service and behavioral science degree programs.

Music
Graduate Music courses are offered to fulfill requirements for professional development or as cognate or selected courses on a plan of study.

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

School of Engineering Technology
Graduate courses in the School of Engineering Technology are offered to fulfill requirements for a minor field or as cognate or selected courses on a plan of study.
### Course Descriptions

#### Art

**Studio Art**

831M Advanced Sculpture (3) Advanced work in area of student's choice with facilities for oxyacetylene welding, arc welding, and woodworking. Prereq: Art 331 and permission of instructor.

841M Advanced Painting (3) Instruction in oil painting and related media permits each student the time and environment to work and develop individually. Strong emphasis on knowledge of contemporary art. Prereq: Art 341 and permission of the instructor.

851M Advanced Techniques in Printmaking (3) Intaglio, lithography, collagraph, and the embossed print, stressing color and technical proficiency in the various media. Prereq: 351 and permission of instructor.

461/861M Advanced Ceramics (3) Advanced work on the potter's wheel, glaze composition, loading and firing of a high-fire kiln. Prereq: Art 361 and permission of the instructor.

831V Graduate Sculpture (3) Advanced problems in sculptural media. Prereq: Art 431 and permission.

841V Graduate Painting (3) More complex problems in the oil medium and related material. Prereq: Permission and 12 credit hours of painting.

851V Graduate Printmaking (3) Advanced problems in printmaking in either intaglio or lithography techniques. Prereq: Art 451 and permission.

#### Biology

323/823 Microtechnique (3) A course in the techniques of fixation, dehydration, staining, cleaning and mounting biological material in the manufacture of microscope slides. Prereq: Two years of biological sciences.

334/834 Ecology (4) Study of interrelationships between organisms and their biotic and abiotic environment; includes population biology, community dynamics, biotic interactions, and evolution. Prereq: Biology 145 and 175.

355/855 Flora of the Great Plains (3) The classification, identification, and recognition of common vascular plants, including weeds, ornamentals, and indigenous plants, found in the great plains. Prereq: Biology 145.

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

373/873 Animal Behavior (3) A survey of the common animal groups found in the great plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands. Prereq: Biology 175.

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

394/894 Embryology (4) A study of the principles of development in multicellular organisms, including current concepts derived from embryological research, with emphasis on vertebrate morphogenesis. Prereq: General zoology, Biology 175, and a course in vertebrate anatomy.

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

412/812M Problems in Ecosystem Management (3) Directed study in the application and evaluation of methods used for managing native and reestablished ecosystems; the principal study site is the 65 ha. Allwise Prairie Preserve. Strong emphasis is placed on field work. Prereq: Graduate standing in Biology and permission of the instructor.

413/813M Experimental Genetics (3) Laboratory studies in genetics emphasizing experimental techniques and laboratory experience with a variety of organisms. Prereq: Biology 214, or permission of instructor.

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

418/818M Limnology (3) A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a freshwater environment. Prereq: Biology 145 and 175, organic chemistry, or permission of the instructor.

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

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

428/828M Animal Behavior Laboratory (1) Laboratory and field studies of animal behavior with
an ethological emphasis. Classical laboratory experiments and independent studies will be conducted. Prereq: Biol./Psych 427/827M or concurrent enrollment.

473/873M Embryology (3) A course in the identification, classification, ecology, and distribution of selected animals. Prereq: Biology 344 or permission of the instructor.

474/874M Ichthyology (4) A study of the biology of the subphylum vertebrata emphasizing their evolution, anatomy, physiology, ecology, zoogeography, behavior, classification and identification with emphasis on North American freshwater fish. Prereq: Biology 475.

475/875M Lichenology (3) Taxonomy, morphology, the biology of lichenized fungi with a special emphasis on identification of the local species. Other topics for discussion will include symbiosis, air pollution and lichens, chemosystematics and modern herbarium techniques for lichens and other cryptogams. Prereq: Biol. 145 and permission of instructor, graduate standing in biology.

477/877M Physiology (3) A survey of the algae dealing with their anatomy, morphology, physiology, taxonomy and evolution. Prereq: Biol. 145 or permission of instructor, graduate standing in biology.

478/878M Vascular Plant Morphology (3) A survey of living and fossil vascular plants with emphasis on their comparative anatomy and morphology and their evolution. Prereq: and 145 or equivalent, graduate standing in biology.

483/883M Mycology (3) A study of the fungi, including their morphology, physiology, taxonomy and evolution. Prereq: Biology 145 or permission of instructor.

484/884M Plant Physiology (4) A study of plant processes and functions with emphasis on photosynthesis, growth and development, motility, and mineral nutrition. Prereq: Biology 145; organic chemistry, or permission of the instructor.

486/886M General Bacteriology (4) A study of bacteria and their viruses with emphasis on bacteriology, taxonomy, and physiology, genetics and properties of selected groups. Prereq: Biology 145 or organic chemistry, or permission of the instructor.

497/897M Experimental Endocrinology (2) Laboratory studies of the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: A course in endocrine physiology and an independent study course in Biology 873M, or permission of the instructor.

498/898M Endocrinology (3) A survey of endocrine function with an emphasis on the regulatory roles of hormones, the control of hormone secretion and the mechanisms of hormone action. Prereq: Organic chemistry, vertebrate anatomy and physiology or permission of the instructor.

499/899M Animal Physiology (4) A comprehensive study of animal function emphasizing mechanisms of nutrition and control. Prereq: Biology 175, vertebrate anatomy, organic chemistry and physiology, or permission of instructor.

473/873M Vertebrate Zoology (4) A study of the general biology of the subphylum vertebrata including the morphology, anatomy, physiology and ecology of vertebrate representatives. Prereq: Biology 175.

479/879M Mammmalogy (4) The biology of mammals, including their evolution, functional morphology, physiology, ecology, zoogeography, behavior, classification and identification with emphasis on North American field mammals. Group Field Projects. Prereq: Biology 478 or 495 or permission of instructor.

480/880M Herpetology (4) The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and adaptation, and conservation. Prereq: Biology 175 or North American groups. Prereq: Biology 175.

485/885M Developmental Biology (4) A study of the principles of development of multicellular organisms. Current concepts of interactions at the biochemical and cellular levels will be included. Prereq: Biology 145 and Biology 175, or permission of instructor, graduate standing in biology.

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

491/891M Protozoology (4) The biology of protozoa, including their morphology, physiology, genetics and ecology with emphasis on free-living groups. Prereq: Biology 175, general zoology.

492/892M Parasitology (4) Taxonomy, morphology, physiology, life history, and distribution of higher parasites with emphasis on protozoans and arthropods. Prereq: Biology 175.

493/893M Vertebrate Embryology and Anatomy (4) The study of evolution and the micropreparative techniques of the vertebrates. Prereq: Biology 175.

495/895M Vertebrate Embryology and Anatomy (4) Vertebrate embryology and anatomy, including the study of major vertebrate systems, and taxonomy, morphology, physiology and evolution. Prereq: Biology 175.

496/896M Advanced Genetics (4) A study of the current genetics in concepts with emphasis on new gene concepts, advances in cyogenetics and population genetics, and the application of genetics to other areas of biology. Lecture and discussion of recent readings, laboratory, selected readings, and research. Permission of instructor. Graduate standing in biology.

497/897M General Genetics (4) An introduction to the general biology of genetics and its applications to the problems of heredity, growth, and development. Prereq: Biology 474 or 495.

498/898M Ornithology (4) An introduction to the general biology of birds with emphasis on the bird populations of North American groups. Prereq: Biology 175.

801V Seminar in Biology (1) A study of current research topics in the discipline. Prereq: Graduate standing. Prereq: Biology 214 or permission of instructor, Graduate standing in biology.

499/899M Entomology (4) A study of the insects and their characteristics with emphasis on identification of the various orders. Prereq: Biology 175.

584V Applied Quantitative Analysis (3) A study of statistical techniques and computer applications. Prereq: DS 213 or BA 817H.

Business Administration

811H Survey of Accounting (3) The uses of accounting for purposes of decision making by managers, shareholders, creditors and others. Prereq: This course is for the graduate student who has not taken principles at the undergraduate level.

817H Quantitative and Statistical Methods for Business Decisions (3) Elementary concepts in quantitative and statistical methodologies. Emphasis is placed on multiplicity of applications to a wide variety of methods. Prereq: Graduate standing and one year of college-level course work in mathematics.

818H Analytical Foundations of Economics (3) Fundamental principles of macroeconomic and microeconomic theory for graduate students in business. The development of modern aggregate theory is examined along with an examination of how the business firm, its market structure, production possibilities, and cost factors, relate to MBAs and other graduate students during this course. No credit is given to students having previously taken Economics 201 and Economics 202 or their equivalents.

800V Quantitative Analysis (3) The study of the general techniques and quantitative methods of application in business decision making. Prereq: US 213 or BA 817H.

Business and Society (3) An inquiry into the facts, techniques, principles, theories, policies, pressures, and influences, and governing the spending, taxing, debt, and public sector resources for state and local governments. Prereq: Econ 101.

864V Business Research Methods (3) A study of research techniques and applications. Prereq: having previously taken Economics 201 and Economics 202 or their equivalents.

880V Business Administration

800V Research Methods in Economics and Business (3) A study of current research techniques in economics and business. The student will become familiar with these techniques through readings in the current literature, journal studies and actual application. Prereq: US 213 or BA 817H.

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

845V Applied Quantitative Analysis (3) The selection of quantitatively-oriented models and techniques applied to a variety of business problems in a case study format. Prereq: Business Administration 817H.

805V Business Conditions Analysis (3) This course is concerned with the statistical measurement and evaluation of general business conditions, and the adoption of business policies to changing business conditions. Emphasis is placed upon the practical application of the statistical techniques of analysis to the business situation.
80TV Business Forecasting (3) This course includes a comprehensive review of forecasting methods and in-depth study of selected techniques most commonly used in the business environment. Emphasis is given to application and therefore students will be required to develop forecasting models and test their own course. Prereq: BA 800V or ECON 830M or permission of instructor.

81TV Managerial Economics (3) Economic analysis of the business firm and its environment, with current emphasis on market structure, pricing, productivity, and cost factors. Additional consideration is given to the theory of the firm under conditions of uncertainty. Prereq: ECON 201 and 202 or BA 808H.

820V Managerial Accounting (3) A study of concepts, analysis, and procedures of accounting affecting the business firm and the community, which provides management with information for planning and controlling routine operations, for non-routine decisions, policy making and long range planning; and for external reporting to stockholders, creditors, and governments. Prereq: Accounting Principles. Students with the equivalent of Managerial Accounting at the undergraduate level should enroll in BA 821V, BA 824V, or BA 825V.

821V Accounting Theory (3) The development of accounting concepts, analysis and basic techniques of the controllership function with emphasis on operational control and the historical foundations. Prereq: BA 800V or the equivalent of Managerial Accounting at the undergraduate level.

825V Seminar in Accounting (3) A study of problem areas which may be independent or interdependent, with current emphasis on Managerial Accounting. Prereq: BA 820V or the equivalent of Managerial Accounting at the undergraduate level.

830V The Environment of Management (3) A study of current trends and their impact, on the management of business and the economic analysis of these processes. Prereq: ECON 201, 202, or BA 808H.

831V Human Behavior in Organization (3) An interdisciplinary study presenting the major trends represented by a variety of theories of organizational behavior as well as major concepts and areas of organizational psychology. Prereq: MCB 349 or BA 8143 and written permission of the CBA Graduate Counselor.

834V Personnel and Administration (3) Extensive treatment of the relevant developing theories, and coverage of certain new methods, techniques, and procedures that relate to personnel administration and human resource management. Efforts are made to select and present material to illustrate the practical, applied aspects of resource management, as related to human problems in organizations. Prereq: BA 831V.

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

840V Marketing Policies (3) A marketing management course in which students will be required to develop forecasting techniques and to employ these in solving problems in marketing. Prereq: Mkt 331 or BA 815J.

841V Promotional Policies (3) Analysis of the methods, research, and policies needed to develop and administer an promotional program. Prereq: Mkt 331 or BA 815J.

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

850V Financial Management (3) Examine the concepts and techniques of financial management and financial applications of an enterprise with emphasis on analysis and solution of long and short-term problems pertaining to financial management. Prereq: BF 325 or BA 813J.

851V Security Analysis (3) A study in the techniques of analysis of marketable securities. Statistical and financial ratio methods of analysis are examined as well as technical analysis. Prereq: BF 325 or BA 815P.

852V Seminar in Investment Management (3) The theory of investment management and its application in formulation of policies for different types of investors. Prereq: Prereq: BF 325 or BA 815P.


855V Seminar in Finance (3) Selected topics from areas of corporate finance. Prereq: Mkt 331 or Mkt 336.

856V Seminar in Accounting (3) A study of problem areas which may be independent or interdependent, with current emphasis on Managerial Accounting. Prereq: BA 820V or the equivalent of Managerial Accounting at the undergraduate level.

860V Real Estate and Land Use Economics (3) A study of current economic problems in real estate and land use economics. The tools are presented and discussed which are used to make real estate decisions in identifying and evaluating professionally the complex factors involved in real estate problems. Prereq: Prereq: ECON 201 and 202 or BA 815J.

861V Current Problems of Business (1-2) May be repeated up to 6. A series of special courses each designed to focus on current major issues and developments in the area of Business Administration. Scheduled as a workshop or seminar to be conducted with the permission of the instructor and attendance on the part of the student is considered an acceptable grade. Prereq: Taken in last 9 period of MBA course.

865V Independent Research Project (3) Individual research in the field of accounting, finance, management, marketing, or quantitative analysis. The environment of the research is determined by the student and supervised by a faculty thesis adviser, with written permission of the student's faculty thesis adviser, and two other faculty members, one of which must be from outside the program area. Prereq: permission of graduate adviser.

Chemistry

335/335J Physical Chemistry (3) A presentation of selected topics from the areas of thermodynamics, statistical mechanics, and quantum mechanics. Prereq: Chemistry 335 or Chemistry 335J.

335L/335JL Physical Chemistry Laboratory (1) Physical chemistry laboratory. Chemistry 335J. Should be taken concurrently with Chemistry 335 or Chemistry 335J.

336/336J Physical Chemistry (3) A presentation of selected topics from the areas of quantum mechanics, spectroscopy, kinetics and statistical mechanics. Prereq: Chemistry 335.

340/340J Real Estate and Land Use Economics (1) Physical chemistry laboratory, Chemistry 336 should be taken concurrently with Chemistry 336.


430/430J Analytical Chemistry Laboratory (2) Laboratory to be taken concurrently with Chemistry 430. Prereq: Same as Chemistry 430.

432/832M Advanced Organic Chemistry (3) An advanced lecture course in modern theories and applications of organic chemistry. Prereq: Chemistry 226 and 335 or equivalent courses in organic chemistry (4 credit hours or more) or physical chemistry (3 credit hours or more) with a grade of C or better or permission of instructor. Chemistry 335 may be taken concurrently with Chemistry 432.

424/824M Advanced Organic Chemistry (3) An advanced lecture course in modern theories and applications of organic chemistry. Prereq: Chemistry 226, 336 with grade of C or better (Chemistry 336 may be taken concurrently).

450/850M Advanced Inorganic Chemistry (3) Theories of chemical bonding, inorganic, and organometallic compounds, and the applications of modern chemical theory to chemical and physical problems in inorganic-chemistry. Prereq: Chemistry 336 (May be taken concurrently).

451/851M Advanced Inorganic Chemistry (1-2) Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques. Prereq: Chemistry 450 (May be taken concurrently).

466/866M Biochemistry Laboratory (1) Biochemistry laboratory for Chemistry 466. Prereq: Chemistry 465 and 465J or equivalent with a grade of C or better. Chemistry 465M and 465J may be taken concurrently. Prereq: Chemistry 226, 226J, 336L, and 336J, with a grade of C or better.

466L/866M Biochemistry (3) Continuation of Chemistry 466. Chemistry 466J may be taken concurrently with 466, Chemistry 466L, or Chemistry 466M with a grade of C or better.

493/893M Special Topics in Chemistry (1-3) Selected topics in chemistry. Prereq: Permission of Chemistry 226, 226J, or equivalent with a grade of C or better. Chemistry 226, 226J, 336L, and 336J, with a grade of C or better.

499/899M Chemistry Problems (1-3) Independent student research. To receive a passing grade the student must present a seminar on the research project to the Chemistry faculty. Prereq: Permission of instructor. Some topics will require more advanced prerequisites.

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and their effect on land use, the environment and social and economic development. Economic analysis, operation and control characteristics of existing systems are considered. Basic transportation modes. PreReq: For 464M, graduate standing or permission of the instructor. For 860M, graduate standing or permission of the instructor. For 865M, graduate standing or permission of the instructor.

400/800M Environmental Quality and Control - Land, Air, and Water (3) An introduction to the principles of ecology, engineering, and planning for the control and management of the physical environment: Land, air, and water. Interactions between land use and air and water pollution, analysis and treatment of water and wastewater, and management of solid wastes in relation to the total environment. PreReq: For 444, Civil Engineering 372. For 844M, graduate standing and Civil Engineering 327.

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

429/829M Applications of Microbiology to Sanitary Engineering (3) The use of microorganisms in the treatment of waste waters, and the study of additional design concepts, including denitrification, pretreatment and ion-exchange. PreReq: For 444, Civil Engineering 444. For 844M, Civil Engineering 844 and graduate standing or permission of the instructor.

430/830M Environmental Soil Mechanics (3) Application of the effective stress principle to soils of cohesive soils; analysis of stability of slopes. Development of continuum relationships for soil solutions for stresses and displacements for an elastic continuum, solution of the consolidation equation for both initial and boundary conditions. PreReq: Graduate standing and Civil Engineering 334.

436M Foundation Engineering (3) Subsoil exploration and analysis of systems engineering with emphasis on optimization and simulation techniques for building site selection. In water resources development related to water supply, flood control, hydroelectric power, drainage, waste disposal, and waste balances are applied to various frame geometry. Member selection and deflection calculations. PreReq: For 444, Civil Engineering 451 or permission of the instructor. For 844M, Civil Engineering 844 and graduate standing or permission of the instructor.

438/838M Water Resources Development (3) Design and operation of water resources systems engineering with emphasis on optimization and simulation techniques for building site selection. In water resources development related to water supply, flood control, hydroelectric power, drainage, waste disposal, and waste balances are applied to various frame geometry. Member selection and deflection calculations. PreReq: For 444, Civil Engineering 451 or permission of the instructor. For 844M, Civil Engineering 844 and graduate standing or permission of the instructor.

457/857M Engineering Hydrology (3) Introduction to the principles of engineering hydrology, with emphasis on hydraulic cycles: precipitation, evaporation, surface and ground run-off, infiltration, drainage basin characteristics, stream flow systems, and river management. Emphasis is placed on utilizing these variables in forming judgments. PreReq: For 447, Math 197 and GE 331 or equivalent. For 857M graduate standing and permission of the instructor.

458/858M Ground Water Engineering (3) The application of principles of hydrology, soil mechanics, and engineering geology to the movement of ground water. The influence of the physical and geologic environment on ground water hydrology, water well hydraulics and aquifer evaluation. Emphasis is placed on practical ground water engineering problems. PreReq: For 458, Math 197 and GE 331 or equivalent. For 858M graduate standing and permission of the instructor.

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

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

463/863M Transportation Geometrics (3) Functional and design of transportation systems with emphasis on highway, railway and airport design and their interaction. Road design, sight distance, superelevation and intersection and ramp curve analysis. Design of highway intersections, ramp design, siting of intersections, selection of candidate points, and road design, traffic control and aircraft characteristics are discussed. Environmental effects of airports including noise and vibration problems. PreReq: For 462, upper class standing and permission of the instructor. For 863M, graduate standing and permission of the instructor.

466/866M Traffic Engineering (3) Characteristics of traffic flow, measurement and analysis of the interaction of the driver, vehicle and roadway. Volume, speed, delay, pedestrian and parking analyses. Traffic flow and control of major facilities, urban design problems, intercity and regional traffic investigations, roadway illumination and traffic control. PreReq: For 463, upper class standing and permission of the instructor. For 866M, graduate standing and permission of the instructor.

468/868M Traffic Engineering (3) Characteristics of traffic flow, measurement and analysis of the interaction of the driver, vehicle and roadway. Volume, speed, delay, pedestrian and parking analyses. Traffic flow and control of major facilities, urban design problems, intercity and regional traffic investigations, roadway illumination and traffic control. PreReq: For 463, upper class standing and permission of the instructor. For 866M, graduate standing and permission of the instructor.

812M Studies in American Public Address (3) A study of the techniques of mechanics applied to reinforced concrete design. Emphasis is placed on stress, strain and bending. PreReq: Graduate standing.

859 Graduate Research (Thesis) (3-6) Communication

895 National History of Mass Communication (3) The American mass media from 17th Century origins to present, with emphasis on mass communication outlets of all types, social and political history, and their relationships to current media issues. PreReq: Graduate standing and major/minor in Communication or instructor permission.

811M Development of Rhetorical Theory (3) The origins and development of rhetorical theory and practice.

817M Studies in American Public Address (3) A study of representative American speakers from the eighteenth century to the present. PreReq: Nine hours of 895.

817M Organizational Communication (3) Communication in relation to problematic interactions within and between various types of organizations. Theoretical and practical methodologies and procedures for comprehending and then interpreting and modifying interpersonal and group processes used to obtain internal and external communications. PreReq: For 469, CE 334 or equivalent. For 859M, graduate standing.
Psycholinguistics and 3 hours of psychology or sociology, or permission. The nature, function and measurement of speech and press and the evolving role of the electronic media in shaping public opinion will be explored with a philosophy and detailed knowledge of how to direct a forensic program. Prereq: Comm 112 or permission.

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

875V/890M Seminar in Communication Theory (3) This seminar is designed for students preparing to take the major, a minor, or advanced seminars in Communication. It is offered to students in the counseling profession of teaching and the field of human services with the specifics relevant to how people make vocational choices. Prereq: Senior, graduate or permission.

475/875V Mid-life, Career Change, Retirement Planning (3) This course is designed to involve students in the exploration of the developmental tasks of mid-life persons and realities related to career change as well as the implication of retirement planning. Factural information, as well as model examination and evaluation are presented to the student being better equipped to understand some of the forces which affect the well-being of middle age persons as they prepare for retirement. Special attention is given to the Junior standing/permission of the instructor.

810M/819U Research Project in Counseling and Guidance (2-3) A research project written under the supervision of an instructor. Prereq: Graduate standing and majoring in Counseling and Special Education.

Counseling and Guidance

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

1852M Psycholinguistics

and 3 hours of psychology or sociology, or permission; a review of various source, message, channel, and receiver variables and their influence on communication effectiveness. Prereq: Comm 101 and 3 hours of psychology or sociology, or permission.

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

853M Seminar in Cross-Cultural Communication (3) This seminar will explore the components of cultural and sub-cultural miscommunication and the ways in which awareness of these factors with the communication between different cultures.

862M Directing Forensics (3) To provide students planning to work in technical fields with a bachelor’s degree in communication the opportunity to extend their experience in forensic science and forensics. Prereq: Permission of instructor.

899 Thesis (1-6 each) Independent research project written under the supervision of an instructor. Prereq: Graduate standing and majoring in Counseling and Special Education. Prereq: Comm 801V or equivalent, or basic statistics, or permission. (Same as Sociology 940V and Psychology 940V)

Counseling and Special Education

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

475/875V Mid-life, Career Change, Retirement Planning (3) This course is designed to involve students in the exploration of the developmental tasks of mid-life persons and realities related to career change as well as the implication of retirement planning. Factural information, as well as model examination and evaluation are presented to the student being better equipped to understand some of the forces which affect the well-being of middle age persons as they prepare for retirement. Special attention is given to the Junior standing/permission of the instructor.

810M/819U Research Project in Counseling and Guidance (2-3) A research project written under the supervision of an instructor. Prereq: Graduate standing and majoring in Counseling and Special Education.

489/890M Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for application in gerontology and aging. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

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489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.

489 Special Studies in Counseling and Guidance (3) Intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of department.
I: Principles of Guidance (3) The introduction to a counselor's professional and ethical aspects. Prereq: Permission of instructor.

I: Counseling Older Adults (2) Designed to provide counseling information and experience to work with older clients. For Counseling and Guidance Majors not specializing in Gerontology. Prereq: Counseling 890M, Principles of Guidance.

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

I: Elementary School Counseling Practicum (3) Counseling in the elementary setting under the supervision of a counseling professor of the University. Prereq: Counseling 820V, 831V.

I: Elementary School Counseling Practicum (3) Counseling in the elementary setting under the supervision of a counseling professor and an appropriate-in-school personnel. Prereq: Counseling 832V and permission of department.

I: Elementary School Counseling (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: Elementary School Counseling Practicum (3) Counseling in the elementary setting under the supervision of a counseling professor and an appropriate-in-school personnel. Prereq: Counseling 832V and permission of department.

I: Elementary School Counseling (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

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I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.

I: Group Counseling Theory and Practice (3) A course of the training designed for older deaf children. Prereq: Counseling 820V, 831V.

I: College Student Personnel Internship (6) Field experiences designed to prepare the student to be teachers of counseling in younger children. Prereq: Counseling 820V, 831V.
845/850M Introduction to The Physically Handicapped Child. (3) The special education needs of children and youth who are physically handicapped (deaf, visually impaired, mentally handicapped, etc.) can be met by the development of educational programs; history, trends. (F) Prereq: Consent of Instructor.

884 Advanced Practicum in Teaching Emotionally Disturbed Children. (3) The retarded child is related to a variety of educational processes designed for his learning needs: methodology and teaching techniques, design and implementation of curriculum units, peers, community, and projects for the trainable and educable and programs for the trainable and educable. Prereq: For 481, 5th year. Special Education 306 and Special Education 460, and 2.5 G.P.A. (F, S)

860/880M Vocational Training for the Mentally Retarded (3) Concerned with the vocational training of the Mentally Retarded from various perspectives: the individual; the school or training center; the employer; and the government. Coordination with agencies that do vocational training, vocational projects, and small group discussions make up the format of the course. Prereq: for 480

885/885M Emotional Development of Children and Youth. (3) The study of psychological, biological, and sociological factors that affect social and emotional development of children and adolescents. Emphasis is placed on symptoms, causative emotional handicaps and educational strategies for classroom intervention. Prereq: Student teaching, graduate standing.

881/881M Classroom Techniques for Behavior Control. (3) This course will introduce the student to a variety of techniques for managing behavior in the classroom. Three major areas will be presented and a variety of techniques within each will be practiced both in the class and in the student's own teaching situations. Applications and adjustments of techniques to individual classroom situations will be discussed. The course is intended for undergraduate students who are not currently enrolled in student teaching and for graduate students who are currently teaching in elementary, secondary, or special education programs. Prereq.: For 481, Junior standing and student teaching; for 881M, graduate standing.

883 Practicum in Teaching Emotionally Disturbed (3) This course is designed for students who are enrolled in special education courses for classroom situation in the field of teaching Emotionally Disturbed children. The course is required for students in the program preparing to teach emotionally disturbed and is open to others who may be interested. Major emphasis is on the development of problem solving skills to be used in the classroom. (F) Prereq: SPED 640 and working experience with handicapped children. (F, S, Su)

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

885/885M Introduction to The Physically Handicapped Child. (3) The special education needs of children and youth who are physically handicapped (deaf, visually impaired, mentally handicapped, etc.) can be met by the development of educational programs; history, trends. (F) Prereq: Consent of Instructor.
problem of educating the severely and profoundly handicapped are not limited to public school settings. All professionals will be made to involve community personnel who have expertise or concerns in special education. Students will be involved in graduate credit, those seeking professional students in preparation for work in special education. Prereq: SPED 460/860.

884V Theoretical Approaches to Teaching The Developmentally Disabled Child (3) This is an advanced methods course for students majoring in special education. It will be offered to graduate students seeking teaching assignments in the following areas: retardation, learning disabilities, education of the deaf, and early childhood education. A significant emphasis on the handicapped (F, S, Su); Prereq: SPED 806 V and SPED 860 V.

887Y Community Services for The Handicapped (3) An introduction to community and regional resources providing services to the handicapped. Program goals, objectives, activities, manpower needs, and the importance of coordination with related programs, administration of services, financing, and policy matters are studied for each agency. (S,Su)

879V Seminar in Special Education (3) Graduate course primarily for special education majors and professional workers in the fields of speech and习得, early childhood education for the handicapped.

884V Advanced Practicum in Teaching Emotionally Disturbed (3) The second semester of participation in a class designed for the handicapped in the field of teaching the emotionally disturbed. The course is for students in the program preparing to teach emotionally disturbed and will be open to students who may be interested. Prereq: Successful completion of Step 1 of the training program for teaching emotionally disturbed (see catalog).

885V Methods and Materials for Teaching The Physically Handicapped (3) Consideration of the physical handicapped. Except where mentioned by the text, the emphasis is on those people who require the development of specialized methods and materials designed to meet their learning needs; an investigation of theories and practices involved in methodology and materials; application of methods; development and evaluation of materials; design and implementation of methods and materials; selection of methods; methods and materials; selection of methods and materials; self-evaluation; and use of audio-visual equipment. (F, S, Su); Prereq: SPED 895.

890V Field Placement Applied to Exceptional Children and Youth with Exceptional Needs (3) This is an advanced level methods course in the field of teaching the emotionally disturbed. The course is for students in the program preparing to teach emotionally disturbed and will be open to students who may be interested. Prereq: Successful completion of Step 1 of the training program for teaching emotionally disturbed (see catalog).

COURSE DESCRIPTIONS 79
481/818M Costing (3) A study of the economic principles and techniques of cost determination and cost control. Prereq: Econ 315. Fall in even-numbered years.

482/821M Microeconomics (5) The theory of demand and supply in individual and market fields, with emphasis on classical, Keynesian, and neo-classical theories. Prereq: Econ 101 or permission of instructor.

483/832M Environmental Economics (3) A study of environmental resources within the context of microeconomic theory. Prereq: Econ 202 and 472 or permission of instructor.

484/845M Cost and Management Accounting (3) The study of the principles of cost accounting. Prereq: Econ 202 and 315 or permission of instructor.

485/855M Economics of Urban Development (3) The study of the economic forces that influence urban structure and development. Prereq: Econ 202 or permission of instructor.

486/866M International Economic Development (3) Problems relating to early stages of economic development in poor countries. Emphasis is placed upon savings and policies and programs are studied. Prereq: Econ 201 and 202. Spring in even-numbered years.

487V Theory of Public Finance (3) This course is designed to develop an understanding of the public financial policies and procedures that influence public decision-making. Prereq: Econ 201 or permission of instructor.

488V Business Forecasting (3) This course includes a comprehensive survey of forecasting methods and in-depth study of selected techniques most commonly used in business situations. Emphasis is given to applications and therefore students will be required to develop and test specific forecasting models and test their performance as part of the course. Cross-listed with BA 805 and ECON 830M or Permission of Instructor.

489V Economic Policy (3) An analysis of the interaction of policy and international factors, with particular emphasis on the working of the international monetary system. Prereq: Econ 363 or permission of instructor.

490/891M Seminar in International Economics (3) An examination of the theoretical underpinnings of the conceptual models and empirical evidence of the world's key economic problems with emphasis upon the policy alternatives applicable toward their solution. (Also listed under Graduate Geography) Prereq: At least 6 hours of upper division credit in economics or permission of the instructor.

491V Seminar in Regional Economics (3) An examination of the current developments and issues involving regional economic development and planning. These courses provide an understanding of the practical issues of regional economic development and allows students to test the practical application of economic theories and policy alternatives, decision making, and measurement techniques are examined. (Also listed under Geography) Prereq: At least 12 hours in undergraduate monetary courses or permission of the instructor.

493V Economic History of the United States Since 1865 (3) A survey of the economic development of the United States since 1865. Prereq: Econ 201 or permission of instructor.

497V Seminar in History (3) Selected topics in history taught by the faculty. Prereq: instructor consent.

650V Drama in the American Theater (3) The development of the American theater and its literature from its origins to 1642. Prereq: 811M History of the Theatre Since 1642 or instructor permission.

651M History of the Theatre to 1642 (3) A historical overview of the history of the theatre and its literature from its origins to 1642.

661M Scene Design (3) Principles of design and color for the stage; the designer's approach to the play, production of ground plans, and consideration of theater elements. Emphasis is on the visual presentation of designs, including considerable techniques of drawing and rendering technique. Prereq: 206-207, 251. Fall in even-numbered years.
Attention will be given to study and research of school-community relations. Major emphasis is given to the role of education in helping society meet its challenges. Attention will be given to the mecha-
mism of change.

807V Alternative Strategies for Education (3) An examination of the concepts of the modern school organization and practice on the student and the school. Emphasis will serve as a foundation from which to analyze and evaluate the merit and utility of alternative strategies. Stress will be placed on the wide social implications of the models discussed.

890V The Urban School (3) An analysis of the societal and institutional processes and problems which have bearing upon the urban school in its present role in urban settings. A study of the urban school.

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

811V Conflict and Controversy in Urban Education (3) A course designed for students who wish to keep abreast of contemporary education. The course confronts the educational institution and the teaching profession in an urban milieu. Topics are modified annually to reflect current educational issues.

811A Field Research Technique in Urban Education (3) The basic purpose of this course is to give students an opportunity to design and conduct research within the urban educational milieu. Anthropological field research and naturalistic studies will be given emphasis. Emphasis is placed on field research techniques as they are used in developing a field research design and will learn to gather and collate data. The course will terminate in the completion of a field work report. Prereq: Graduate standing, EFD 801, 833, or permission of instructor.

833V Anthropology and Urban Education (3) This course is designed to examine ways in which education, conceptualized as social transformation, contributes to and is influenced by changes and changes in culture. An understanding and appreciation of the role that education plays in the political and social order of the society will be stressed. A limited anthropological field study is a requirement of the course. Prereq: FED 801 — Introduction to Research.

English

815M Contemporary French and German Novel (3) Comparative study of selected contemporary French and German novels in their national contexts. Emphasis is placed on a Peruvian student of the permitting of the instruction. (Same as French 415/815 and German 415/815M).

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

818M Chicano Literature and Culture (3) A study of representative works of Mexican American, Spanish American, and American Mexican literature. Emphasis is placed on the relationship between the cultural and historical antecedents. Prereq: Permission. (Same as Spanish 418/818M).
164M The Age of Pope and Swift (3) Poetry, prose (exclusive of the novel), and drama of England during the Restoration and the first half of the eighteenth century, with emphasis on Pope and Swift.
165M The Age of Johnson (3) Poetry, prose (exclusive of the novel), and drama of England during the second half of the eighteenth century, with emphasis on Boswell and Johnson.
840M Seventeenth Century Literature (3) A study of the English poetry and prose from 1600 to 1666, including such authors as John Donne, Ben Jonson, Lagrange, Barrow, Sir Thomas Browne, and John Milton.
850M Shakespeare's Contemporaries (3) A study of the development of the English drama, exclusive of Shakespeare, from the beginning to 1642.
855M Literary Movements in Linguistics (3) An introduction to the concepts and methodology of the scientific study of language, including language description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language learning.
860M Shakespeare (3) A critical study of selected comedies, histories and tragedies by Shakespeare. 644M Pro-Seminar: English 458/858M. Readings in the English novel from Daniel Defoe to Jane Austen.
865M The Nineteenth Century English Novel (3) Readings in the English novel from Jane Austen to Thomas Hardy.
866M The Twentieth-Century English Novel (3) Readings in the English novel from Joseph Conrad to Thomas Mann.
868M History of English (3) A study of the structural development of the English language. Prereq: English 458/858M or permission.
875M Rhetoric (3) A study of contemporary theories of invention, form, and style and their application as presented in written discourse, with special emphasis on such contemporary rhetoricians as Aristotle, Cicero, and their successors. Prereq: English 458/858M or permission.
876M Structure of English (3) A study of the phonology, morphology, and syntax of English as seen by the traditional, structural, and transformational-generative theories of language description. Prereq: English 458/858M or permission.
881M Literature of the Romantic Period (3) Poetry and prose (excluding the novel) of England from 1789 to 1830.
882M Literature of the Victorian Period (3) English poetry and prose (excluding the novel) from 1830 to 1900.
885M Twentieth-Century English Literature (3) Readings in English literature from Shaw and Yeats to the present.
886M Modern French Women Authors (3) A comparative study of contemporary and recent French literature; the feminine perspective on society, politics and human values as expressed in those works. Conducted in English with readings in French or English. Prereq: French 486/886M or permission of instructor.
888M Linguistic Variation (3) The methods and results of linguistic geography, sociological dialectology, and modern variations with emphasis on the study of French and English in the classroom. Prereq: English 458/858M or permission.
891M Contemporary Poetry of England and America (3) A study of the English and American poetry of the present, with emphasis on what it contains, and the relevant critical theory of the contemporary period.
893M American Poetry (3) The practice and theory of American poetry from the colonial period up to the contemporary period.
894M Studies in Language and Linguistics (3) Specific subjects (when offered) appear in class syllabus. Complete syllabus available in English Department.
895M Contemporary Literature: Major Figures and Major Movements (3) A critical study of selected major literary figures or major literary movements which have appeared since World War II.
896M Seminar: Linguistics (3) A seminar in a few significant literary figures of the English renaissance. Prereq: English 458/858M or permission of instructor. (Same as English 896M.)
896V Seminar in The English Renaissance (3) A seminar in a few significant literary figures of the English renaissance. Prereq: Graduate standing or permission of the chairman of the department of English.
898V Seminar in The English Renaissance (3) A seminar in a few significant literary figures of the English renaissance. Prereq: Graduate standing or permission of the chairman of the department of English.
900V Seminar: Twentieth-Century English (3) An intensive study of selected Victorian authors and their works. Prereq: Graduate standing or permission by the chairman of the department of English.
913V Topical Seminar in English (3) An intensive study of one or more authors, genres, movements or literary periods not covered by regular prerequisite courses. (This course may be repeated for additional credits under different topics.) Prereq: Graduate standing or permission of the instructor.
914V Seminar: John Milton (3) Intensive seminar in the major works of John Milton and investigation of specific critical problems. Prereq: Graduate standing or permission of the instructor.
915V Seminar in Middle English Literature (3) A study of selected writings in middle English. Prereq: Graduate standing and one course in middle English language or writings.
925V Seminar in Chaucer (3) A study of selected works of Geoffrey Chaucer. Prereq: Graduate standing and one course in middle English language or writings.
988V Independent Study (3) Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a given member of the faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit once. Prereq: Permission of instructor; admission to candidacy, and no incompletes outstanding.
998V Thesis (3-6) Independent research project writing a thesis under the supervision of an advisor. Prereq: Graduate standing.
992V Seminar: Shakespeare (3) Critical analysis of selected scenes or ten comedies of Shakespeare. Prereq: Graduate standing.
915V English Literature 1750-1830 (3) Studies in the transition between English literature of the age of Johnson and that of the age of Wordsworth. Prereq: Graduate standing.
For English 486/886M Modern French Women Authors (3) A comparative study of works by French and German women. Conducted in English with additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 415/815M and English 415/815M.)
417V/817V Contemporary French and German Drama (3) Comparative study of selected contemporary French and German plays. Conducted in English with additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 417V/817V and English 417V/817V.)
458/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language, including language description, history, theory, variation, and acquisition as well as semantics, lexicography, and foreign language learning. Prereq: Junior standing or permission. Graduate standing or permission.
486/886M Modern French Women Authors (3) A comparative study of works by French and German women. Conducted in English with additional readings in French for French students. Prereq: Permission of the instructor. (Same as German 415/815M and English 415/815M.)
496/896M Independent Study (1-3) Guided independent study and research under the supervision of a member of the faculty. May be repeated with different topics but not in the same semester for maximum of six semester hours total. Prereq: Permission of instructor.
496/896M Pro-Seminar (1-3) Detailed study of narrower phases of literary history, language, or culture. Prereq: Permission of the instructor.
501M Advanced Conversation and Composition (3) Practice in conversation and written composition, grammar review, study of phonetics and basic reference works. Prereq: German 304 or permission.
410/810M Introduction to German Folklore (3) An intensive familiarization of the student with the broad spectrum of folklore in modern and ancient societies of the Indo-Germanic continuum. Definition of folklore as an academic discipline, delimitation of the material studied by the student for folklore. Presentation of the folklore of Germany, England, and France in the classroom and the field, and the application of methods of scholarship currently useful to the study of English and American literature. Prereq: Graduate standing and one course in English or American literature. Prereq: Graduate standing.
sociology, or history. For 810M, graduate standing and permission.

415/815M Contemporary French and German Novel (3) Comparative study of selected contem­porary French and German novels. Prereq: 120M. Conducted in English with English translations. Additional readings in German for German students. Prereq: Permission of the instructor. (Same as French 415/815M and English 417/815M).

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

431/831M German Literature of The 19th Cent­ury (3) Survey of the major literature of the nineteenth century from Romanticism to Naturalism. Prereq: 421, German 303 or permission of the instructor. For 831M, German 303.

432/832M German Literature of The 20th Cent­ury (3) Survey of the major literature of the twentieth century, from Expressionism to the literature after World War II. Prereq: For 422, German 303 or permission of the instructor. For 832M, German 303.

438/838M German Civilization From The 18th Century to The Present (3) Detailed analysis of German art, architecture, literature, music, and philosophy. The influence of the sciences and of modern movements of German civilization and culture. Prereq: For 438, permission of the instructor.

440/840M German Novelle (3) Survey of the German short story, its historical origins, character­istics. Prereq: 303 or permission of instructor.

444/844M German Drama (3) History of drama development in Germany, study of several of the more im­portant dramas. Prereq: 303 or permission of instruc­tor.

449/849M German Literature of the Seventeenth Century (3) The principal dramatic, epic and lyric works of the period. Prereq: German 401M. German 303 or permission.

450/850M German Literature of The Eighteenth Century (3) A study of representative authors of the enlightenment, a storm and stress, and German determinism: Lessing, Herder, Schiller, and Goethe. Prereq: Permission of instructor.

459/859M Introduction to Linguistics (3) An introduction to the basic principles and methodology of the scientific study of language; includes language description, theory, history, variation, and acquisi­tion as well as semantics, lexicography, and foreign language. Prereq: Junior standing and permission; graduate standing.

459/859M Bibliography and Methodology (1-2) An introduction to the basic bibliography and methodology of German literature and language. Prereq: Permission of instructor.

462/862M Introduction to Linguistics (1-3) Guided inde­pendent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

469/869M Pro-Seminar (1-3) A detailed study of narrower phases of literature, language, or cul­ture. Prereq: Permission of the instructor.

Spanish

801M Advanced Conversation and Composition (3) Advanced conversation and writing in Spanish. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Spanish 317 or permission of the instructor. Conducted in Spanish.

810/M Theater of The Golden Age (3) Fore­most Spanish dramatists and plays of the sixteenth century. Prereq: Spanish 317 or permission of the instructor.

811/M Novel of The Golden Age (3) Study of the prose masterpieces of the sixteenth and seventeenth centuries, including such works as Lazaril­lo de Torquemada. Prereq: For 411, Spanish 317 or permission of the instructor.

818/SSM Introduction to Linguistics (3) The scientific study of language; includes language description, history, theory, variation, and acquisi­tion as well as semantics, lexicography, and foreign language teaching. Prereq: For 438, junior standing or permission of the instructor.

820/SSM Latin American Literature of The Twentieth Century (3) Critical and analytical study of the foremost Spanish American dramatists from modernism to the present. Prereq: Spanish 322 or permission of the instructor.

813/SSSM Spanish Literature and Culture (3) In English. A study of the representative works of Mexican American, Spanish American, and American writers, along with their cultural and historical antecedents. Does not apply toward requirements of the major. Prereq: Permission of the instructor. (Same as English 418/818M).

823/SSSM Introduction to Linguistics (3) An introduction to the basic bibliography and methodology of the scientific study of language; includes language description, history, theory, variation, and acquisi­tion as well as semantics, lexicography, and foreign language teaching. Prereq: For 438, junior standing or permission of the instructor.

German

831M Advanced Conversation and Composition (3) Advanced conversation and writing in German. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: German 303 or permission of the instructor.

832/852M Experimental Stress Analysis (3) The study of modern methods to the solution of engineering problems. Prereq: GE 373, Math 235.

836/856M German Civilization From The 18th Century to The Present (3) Detailed analysis of German art, architecture, literature, music, and philosophy. The influence of the sciences and of modern movements of German civilization and culture. Prereq: For 438, permission of the instructor.

837/SSSM Introduction to Linguistics (3) The scientific study of language; includes language description, history, theory, variation, and acquisi­tion as well as semantics, lexicography, and foreign language teaching. Prereq: For 438, junior standing or permission of the instructor.

838/858M German Ovilization From The 18th to The Present (3) Detailed analysis of German art, architecture, literature, music, and phil­osophy. The influence of the sciences and of modern movements of German civilization and culture. Prereq: For 438, permission of the instructor.

831M Novel of The Golden Age (3) Study of the prose masterpieces of the sixteenth and seventeenth centuries, including such works as Lazaril­lo de Torquemada. Prereq: For 411, Spanish 317 or permission of the instructor.

838/SSSM Introduction to Linguistics (3) The scientific study of language; includes language description, history, theory, variation, and acquisi­tion as well as semantics, lexicography, and foreign language teaching. Prereq: For 438, junior standing or permission of the instructor.

839/SSSM Introduction to Linguistics (3) The scientific study of language; includes language description, history, theory, variation, and acquisi­tion as well as semantics, lexicography, and foreign language teaching. Prereq: For 438, junior standing or permission of the instructor.

840/860M German Novelle (3) Survey of the German short story, its historical origins, character­istics. Prereq: 303 or permission of instructor.

844/844M German Drama (3) History of drama development in Germany, study of several of the more im­portant dramas. Prereq: 303 or permission of instruc­tor.

849/849M German Literature of the Seventeenth Century (3) The principal dramatic, epic and lyric works of the period. Prereq: German 401M. German 303 or permission.

850/850M German Literature of The Eighteenth Century (3) A study of representative authors of the enlightenment, a storm and stress, and German determinism: Lessing, Herder, Schiller, and Goethe. Prereq: Permission of instructor.

859/859M Introduction to Linguistics (3) An introduction to the basic principles and methodology of the scientific study of language; includes language description, theory, history, variation, and acquisi­tion as well as semantics, lexicography, and foreign language. Prereq: Junior standing and permission; graduate standing.

859/859M Bibliography and Methodology (1-2) An introduction to the basic bibliography and methodology of German literature and language. Prereq: Permission of instructor.

862/862M Introduction to Linguistics (1-3) Guided inde­pendent study and research under tutorial supervision. May be repeated with different topic but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

869/869M Pro-Seminar (1-3) A detailed study of narrower phases of literature, language, or cul­ture. Prereq: Permission of the instructor.

870/870M Independence Study (1-3) A study of major physical and cultural attributes of the region. Emphasis on settlement history and the role of agriculture on the regional economy.
851V Advanced Geomorphology

A seminar and lecture course on the current concepts and literature in the field of geomorphology. Discussion will emphasize the development of concepts and models as well as the relationship of geomorphic processes to the physical setting of the area. Students will be required to make oral presentations and to submit a final written paper. Prereq: Permission. (Same as 881V.)

883V/884V Interdisciplinary Seminar On The Urban Community

2-6 An interdisciplinary seminar to examine the current trends in urban society in which students will present a variety of different urbanization problems. Each student will be required to present a major paper and to participate in a series of discussions. Prerequisite: 8 hrs. 883V.

885V Population Seminar

3 The significance of the study of population trends for the understanding of the development of the human species with emphasis on the population trends in Nebraska. Prereq: Permission.

887V Personal Values

3 To become familiar with personal values and feelings related to aging. Prereq: Nine hours Gerontology or permission. (Same as Social Work 869.)

889V Professional Practicum

0-6 This course is provided to give the student an opportunity to apply principles and practices learned in the classroom to real situations in various service systems and practice models in gerontology. Prereq: Senior or graduate standing in Gerontology or Social Work or permission of the instructor.

897V Thanatology-Study of Death

3 An examination of the meaning of death and dying in our society, focusing on communication with widows and other survivors as well as the dying person. Prereq: Senior or graduate standing in Gerontology or Social Work or permission of the instructor.

899V Professional Practicum

0-6 This course is provided to give the student an opportunity to apply principles and practices learned in the classroom to real situations in various service systems and practice models in gerontology. Prereq: Senior or graduate standing in Gerontology or Social Work or permission of the instructor.

897V Thanatology-Study of Death

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899V Professional Practicum

0-6 This course is provided to give the student an opportunity to apply principles and practices learned in the classroom to real situations in various service systems and practice models in gerontology. Prereq: Senior or graduate standing in Gerontology or Social Work or permission of the instructor.
820V Special Studies (1-3) A series of intensive courses scheduled as regular seminars or workshops, according to purpose. Prereq: Permission of the Department.

837V Research in Health, Physical Education and Recreation (3) An introduction to the nature and significance of research in HPER. Attention will be directed to the importance of applying research results to classroom situations. Basic statistical techniques will be covered. Prereq: Graduate student in HPER.

810V Research Project (1-5) Individual or group study of selected problems in health, physical education or recreation. Prereq: Permission of instructor.

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

Health Education

455/855M Health Aspects of Aging (3) The study of psychological, sociological and physiological factors that influence the health of the aging. With particular emphasis given to biological changes that have implications for disease and health decisions. Prereq: Six hours of health or permission of the instructor. (S)

470V Elementary School Health Education Selected Content Areas (3) This course is designed to provide the student with an in-depth study of selected content areas of health education. These selected content areas include: Drug education, nutrition, mental health, human sexuality, and safety education. In addition an abbreviated overview of health education in the elementary schools will be provided. Prereq: Graduate standing.

805V Alcohol Dependency Workshop for Educators (1) A concentrated look at problems which arise in relation to alcohol use in our society. Discussion is given to the detection of alcohol problems and the problems of the alcoholic or overdrinker. Prereq: 805V, 855V, and 875V.

Human Sexuality (3) This graduate level course is aimed at providing an overview of the current scientific knowledge concerning human sexuality. Emphasis is to be placed on sexual behavior as it relates to sexual problems associated with alcohol use and misuse. The patterns and trends of use, theories of dependence, pharmacological aspects and health consequences are explored. Emphasis is given to the development of issue identification. The final focus of the course is the prevention of problem drinking.

Physical Education

822V Problems and Issues in Physical Education (3) An examination of major problems and trends in college, secondary, and elementary physical education. Special emphasis is given to problems that relate to the general aims and purposes of physical education.

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

826V Supervision of Physical Education (3) Special emphasis is given to the tasks of supervision of physical education personnel. Prereq: Graduate standing.

825V Curriculum in Physical Education (3) A study of the foundations for curriculum development and related educational problems. Special consideration is given to curriculum change, curriculum patterns, and programs in physical education.

830V Analysis of Research and Literature in Health Education (3) An introduction to research and literature in human movement for the purpose of orienting the student to the major areas of research and developing an understanding and appreciation of writings in the field.

840V Development of Instruction in Physical Education (3) An examination of the development of curricula, opportunities, and methods of physical education instruction.

40V Motor Learning and Performance (3) A study of conditions and factors which influence the learning and performance of motor skills. Emphasis will be given to those skills which are important for the health of the individual.

451M 851M Recreation Programs for the Mentally Ill and the Mentally Retarded (3) Designed to help students develop and implement programs for the mentally ill and retarded. Prereq: For 851M, Junior standing or permission of the instructor.

430/830M Recreation Programming (3) An advanced study of recreational programming and planning based on a background of knowledge in recreation planning, development, and administration. Prereq: For 830M, 845V, 873M and 344J.

858M Recreation Resources for the Mentally Ill and the Mentally Retarded (3) Designed to help students develop and implement programs for the mentally ill and retarded. Prereq: For 858M, Junior standing or permission of the instructor.

845V Kinesthetic Analysis of Motor Skills (3) An investigation of the biomechanical basis of motor performance. Special emphasis is given to the fundamentals of sport patterns and an understanding of techniques for collecting biomechanical data.

850M Behavioral Aspects of Coaching Athletes (3) A course designed to provide the graduate physical education student with an overview of the behavioral aspects of coaching athletes. The course will cover coaching as it affects skills, abilities, and personality of the elementary school, junior high school, high school, college, and post-college athletes. Such personal factors as body build, intellectual attributes, emotions, competition, cooperation, morality, sportsmanship, and leadership will be discussed in relation to the behavioral aspects of coaching. Prereq: Graduate standing or permission of the instructor.

852M Recreation for the Aging (3) The purpose of this course is to introduce the student to the field of recreation for the aging in nursing homes and community-based recreation programs. The concentration on the aging and their needs, and the development of programming students from the experiences they meet with some of their needs. A portion of the course involves students being placed in site leadership. Prereq: RED 350 or Gerontology 200, or permission of the instructor.

840J Research in Leisure Resources Planning (3) An in-depth view of outdoor recreation planning, policy formulation, administration, and significant current problems. Specific attention will be focused on state planning, recreation variates, tourism, urbanization, and the role of recreation in decision-making, and public policy. Prereq: Graduate standing. At least 80 hours undergraduate preparation courses, or permission of the instructor.

History

313V/813J American Colonial History (3) A study of the development of English settlements and the English colonies. Prereq: For 313, junior standing or permission of the instructor.

316/816J The American Frontier: 1800-1900 (3) The Trans-Mississippi West from the Rocky Mountain Front to the disappearance of the frontier around 1900. Prereq: For 316, junior standing or permission of the instructor.

333/833J American Diplomacy 1789-1898 (3) A study of the history of the foreign relations of the United States. Prereq: For 333, junior standing or permission of the instructor.

341/841J History of Nebraska (3) From the earliest known records to the present. Prereq: For 341, junior standing or permission of the instructor.

344/844J History of the South (3) Economic, social, and political development of the south as a region. Prereq: For 344, junior standing or permission of the instructor.

353/853J Medieval Europe, 284-1095 (3) Establishment and development of the medieval church and of feudal society from the fall of the Roman Empire to the beginning of the Crusades. Prereq: For 353, junior standing or permission of the instructor.

354/854J Medieval Europe, 1095-1492 (3) Religious, economic, ethical, philosophic, and institutional developments of the era extending from the Crusades and the inventions through the waning of the medieval era. Prereq: For 354, junior standing or permission of the instructor.

364/864J History of The British Empire and Commonwealth (3) Britain in America, Africa, India and the Pacific. The development of the British Empire and the transformation of many dependencies to the status of independent members of the Commonwealth of Nations. Prereq: For 364, junior standing or permission of the instructor.

371/871J Europe and America in the Two World Wars (3) A military, social, and political history analyzing Europe and America in World War I and World War II. Prereq: For 371, junior standing or permission of the instructor.

409/851M Topics in History (3) A pro-seminar on selected topics based on a consideration of important historical writings and materials. Prereq: Permission of the instructor.
417/817M American Social and Intellectual History Since 1865 (3) (3) A history of constitutional and political thought and practice since 1865, following the war and the rise of the modern democratic constitutional state. Prereq: For 447, junior standing or permission of the instructor.

451/851M Intellectual History of Modern Europe Since 1900 (3) A study of the inner life of Europe and a reassessment of its cultural and political leadership. Prereq: For 452, junior standing or permission of the instructor.

452/852M Intellectual History of Modern Europe From The Early Nineteenth Century To The Present (3) A study of the inner life of Europe and a reassessment of its cultural and political leadership. Prereq: For 452, junior standing or permission of the instructor.

501V Advanced Research Project in History (1, 1-11, S) Special problems in advanced research in history, arranged individually with graduate students.

502 Seminar in Historiography (3) A study of major historiographic and methodological issues of the last century, including the relationship between the historian and society.

522/822J Advanced Programming Techniques (3) The study of software programming paradigms, including correctness, efficiency, and psychological factors of programs and program design. Prereq: Computer Science 211, 212, and 235.

530/830J Numerical Methods (3) Solving equations and systems of equations, numerical differentiation and integration, numerical solutions to ordinary differential equations, numerical calculation of eigenvalues and eigenvectors, analysis of algorithms and error, computational efficiency. Same as Math 830J.

532/832J Data Structures (3) Methods for representing arrays, stacks, queues, and other algorithms that will be used in the economic, social, and political problems of the emerging nation. Prereq: For 413, junior standing or permission of the instructor.

549V History of the Environment (1) A history of the evolution of the human environment, from the Ice Age to the present. Prereq: For 459, junior standing or permission of the instructor.

599 Thesis (1, 1-11, S) Thesis research project.

311/811J Information Systems Analysis (3) Decision-making processes, system life cycle, logical design of information systems. Prereq: CS 171 or 172.

312/812J System Design and Implementation (3) Principles of computer systems, network architectures, and techniques used for the design and implementation of information systems. Hardware, software and system selection and evaluation. Prereq: CS 311.

322/822J Advanced Programming Techniques (3) The study of software programming paradigms, including correctness, efficiency, and psychological factors of programs and program design. Prereq: Computer Science 211, 212, and 235.

330/830J Numerical Methods (3) Solving equations and systems of equations, numerical differentiation and integration, numerical solutions to ordinary differential equations, numerical calculation of eigenvalues and eigenvectors, analysis of algorithms and error, computational efficiency. Same as Math 830J.

332/832J Data Structures (3) Methods for representing arrays, stacks, queues, and other algorithms that will be used in the economic, social, and political problems of the emerging nation. Prereq: For 413, junior standing or permission of the instructor.

345/845J File and Communications Systems (3) Functions of file systems and communication systems within an information system. Prereq: CS 332.

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

396V/996 Seminar in British History Readings and research in selected topics of British history. This course will be offered at the 900 level when taught by a Graduate Faculty Fellow.

451/851M Intellectual History of Modern Europe (3) A study of the inner life of Europe and a reassessment of its cultural and political leadership. Prereq: For 452, junior standing or permission of the instructor.

452/852M Intellectual History of Modern Europe From The Early Nineteenth Century To The Present (3) A study of the inner life of Europe and a reassessment of its cultural and political leadership. Prereq: For 452, junior standing or permission of the instructor.

455/855M The Age of Enlightenment (3) A study of the intellectual, social, and political changes of the eighteenth century as the modern secular era and its impact upon modern European society. Prereq: For 455, junior standing or permission of the instructor.

456/856M The French Revolution and Napoleon Era, 1789-1815 (3) A study of the French Revolution and the Napoleonic era with particular attention to the development of democratic practices and a new order of commercial life. Prereq: For 456, junior standing or permission of the instructor.

457/857M Europe Betrays Its Promise (1815-1890) (3) A study of realism and revision of the Napoleonic era with particular attention to the development of democratic practices and a new order of commercial life. Prereq: For 456, junior standing or permission of the instructor.

593 Ecology of Maltreatment (3) Fundamental assumptions underlying the current world malnutrition problem, investigations of projected future problems and schemes for their prevention or solution. Prereq: For 504, 514, 524, 534, and 544, junior standing or permission of the instructor.

616/816M Tudor and Stuart England (3) A study of England under the Tudors when the English nation rose magnificently and experienced a golden age, and the Stuarts then cast off the last vestiges of autocracy. Prereq: For 456, junior standing or permission of the instructor.

622/822J Advanced Programming Techniques (3) The study of software programming paradigms, including correctness, efficiency, and psychological factors of programs and program design. Prereq: Computer Science 211, 212, and 235.

626/826M Media and the Family (3) The family as the primary socialization cycle. Influence of normal physiological stress throughout the life span including aging on national requirements. Investigation of projected future problems and schemes for their prevention or solution. Prereq: For 640, 650, and 660, junior or senior standing or permission of the instructor.

649/849M Human Development and The Family (3) Human development and the family as the primary socialization cycle. Influence of normal physiological stress throughout the life span including aging on national requirements. Investigation of projected future problems and schemes for their prevention or solution. Prereq: For 640, 650, and 660, junior or senior standing or permission of the instructor.
systems; Process description and implementation; processor management (scheduling; I/O device, controller, and channel management; file systems. Algorithms that have been implemented for large and small machines. Prereq: CS 231 and CS 332. CS 435/435M.

453/453M Systems Programming II (3) Advanced Topics in Operating System. State of the art techniques for operating system structuring and implementation. Special purpose operating systems, Pragmatic aspects of operating system design, implementation, and use. Prereq: CS 450.

470/470M Compiler Construction (3) Assemblers, interpreters and compilers. Compilation of simple expressions and statements. Organization of a compiler, including compile-time and runtime symbol tables, lexical, syntax, scanner, object code generation and error diagnostics. Prereq: CS 332 and 423. CS 450 and CS 472 recommended.

489V Information Organization and Retrieval (3) A survey of the capabilities of various language processing systems for organizing, searching, retrieving, compiling, and interpreting structured and unstructured information on digital computers. Prereq: CS 331 (C or better).

487V Algorithmic Combinatorics (3) Classical combinatorial analysis, graph theory, trees, network flow, matching theory, extremal problems, block designs. Same as Math 487V. Prereq: Math 201 or permission of instructor.


482V Advanced Numerical Methods II (3) Interpolation, extrapolation, numerical solutions to boundary value problems, numerical solutions to partial differential equations. Same as Math 882V. Prereq: Math 881V/CS 818V.

481V Advanced Topics in Optimization (3) Selected advanced programming techniques, optimization under uncertainty, constrained and nonlinear integer programming, and dynamic programming, optimization methods and optimal control. May be repeated with permission for a maximum of 9 hours. Prereq: Math 830I and Math 850I. Math 851M recommended. Prereq: Math 331 or Math 427M.

364/864 Modern Geometry (3) Axiomatic systems, finite geometries, modern foundations of Euclidean geometry, hyperbolic and other non-Euclidean geometrics, projective geometry. Prereq: Math 363 or permission of instructor.

365/865Stochastic Modeling (3) Examination and construction of probabilistic models for various situations encountered in science and industry. Prereq: Math 251 or 365. Prereq: Math/CS 205 or Math 305. CS 170 or CS 172.

441/441M Introduction to Modern Algebra (3) An introduction to abstract algebra to include groups, rings, and fields. Examples and elementary math proofs will be discussed. Prereq: Math 201 or permission of the instructor.

451/451V Mathematical Analysis I (3) A review of sets and logic, Peano axioms, natural numbers, and intermediate value theorem. Prereq: Math 196 and Math 201 or permission of instructor.

442/422M Mathematical Analysis II (3) Provides a theoretical background for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 422 or permission of instructor.

427/827 Complex Variables (3) Differentiation, integration and power series expansions of analytic functions; residue calculus, and applications. Prereq: Math 232 or advanced placement.


350/850I Selected Topics in Mathematics (1-6) The course content is not fixed but will be selected from the following: algorithms for integer programming, branch and bound techniques, cut and branch techniques, pseudo-landmark problems, etc. Prereq: Math 850J.

335/835J-836V Theory of Analytic Functions (3) An advanced undergraduate (beginning graduate) course devoted to the classical theory of functions of a complex variable, such as the brachistochrone problem and the parameters in parametric form. Prereq: Math 423 or 311.


401/401T Topics in Mathematics (Each) (1 -6) Selected advanced topics in various aspects of mathematics as outlined in the course catalog. Prereq: Math 323.

424/824M Mathematical Analysis III (3) Provides a theoretical background for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 422 or permission of instructor.

425/825M Mathematical Analysis IV (3) Provides a theoretical background for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 422 or permission of instructor.

427/827 Complex Variables (3) Differentiation, integration and power series expansions of analytic functions; residue calculus, and applications. Prereq: Math 232 or advanced placement.


430/820I Numerical Methods I (3) Theory of simple methods, obtaining of initial basic feasible solution, insensitive and unbounded problems, quadratic programming, linear programming, commercial LP package, transportation and assignment techniques. Same as CS 830M. Prereq: Math/CS 205. Prereq: Math 201 or permission of instructor.

431/831M Optimization Techniques (3) The mathematical foundations of optimization theory, algorithms, and computerized solution algorithms. Same as CS 831M. Prereq: Math 197, Math 205 or Math 305. Math 170 or Math 172.


411/811M-812M Abstract Algebra (Each) A course in abstract algebra to include groups, rings, and fields and Galois theory. Prereq: Math 370 or permission required for Math 811M. Prereq: Math 305 and Math 811M recommended. Prereq: Math 812M.

423/813M Mathematical Analysis I (3) Provides a theoretical background for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 323 or equivalent.

424/824M Mathematical Analysis II (3) Provides a theoretical background for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 422 or permission of instructor.

427/827 Complex Variables (3) Differentiation, integration and power series expansions of analytic functions; residue calculus, and applications. Prereq: Math 232 or advanced placement.


430/820I Numerical Methods I (3) Theory of simple methods, obtaining of initial basic feasible solution, insensitive and unbounded problems, quadratic programming, linear programming, commercial LP package, transportation and assignment techniques. Same as CS 830M. Prereq: Math/CS 205. Prereq: Math 201 or permission of instructor.

431/831M Optimization Techniques (3) The mathematical foundations of optimization theory, algorithms, and computerized solution algorithms. Same as CS 831M. Prereq: Math 197, Math 205 or Math 305. Math 170 or Math 172.


411/811M-812M Abstract Algebra (Each) A course in abstract algebra to include groups, rings, and fields and Galois theory. Prereq: Math 370 or permission required for Math 811M. Prereq: Math 305 and Math 811M recommended. Prereq: Math 812M.

423/813M Mathematical Analysis I (3) Provides a theoretical background for the concepts of elementary calculus. Topics include functions of several variables, partial differentiation and multiple integration, limits and continuity in a metric space, infinite series, sequences and series of functions, power series, uniform convergence, improper integrals. Prereq: Math 305 and Math 323 or equivalent.
I selected from integer programming methods, of basic concepts from Linear Algebra. Direct and approximation, numerical solutions to boundary block designs. Same as CS 867V. Prereq: Math/ Numerical methods for finding eigenvalues and single linear transformation, sets of linear transformations. Same as CS 882V. Prereq: Math 881Y/CSS 881V.

Advanced Topics in Optimization (3) Topics selected from integer programming methods, optimization under uncertainty, constrained and unconstrained search procedures, advanced dynamic programming, variational methods and optimal control. May be repeated for credit with permission of Graduate Advisor. Same as Math 891V. Prereq: CSS 430, CSS 431. Graduate Seminar (3-1) A graduate seminar in mathematics.

Thesis (3-6)

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

Advanced Topics in Algebra I


923-924 Theory of Functions of Real Variables (Each 3) The real number system, generalization of function, continuity, semicontinuity, bounded variation, differentiation, Lebesque-Stieltjes integral, measure and integration, abstract measure spaces. Premer Math 423-424, 823-824 or advanced calculus 923 needed for 924. 924 to be offered in the fall of even-numbered years. 924 to be offered in the fall of even-numbered years.

925-927 Functional Analysis (Each 3) Semester I: Normed linear spaces, and operators, duality, Fredholm operators. Semester II: Reflexive Banach spaces, Hilbert spaces, self adjoint operators. Premer Math 427 and two of the following courses one of which must be Math 862Y or 923.

Statistics

901 Mathematical Statistics I (3) Distributions, introduction to measures of central value and dispersion, population and sample, the normal distribution, inference. Single population, inference. Two populations, introduction to analysis of variance. Statistical packages on the computer will also be utilized in the course. Premer Math 131 or equivalent.

901J Statistical Methods II (3) Regression and correlation, analysis of covariance. This course also covers several classical statistical topics. Premer Math 260 and 363 or 364 or equivalent.

Philosophy and Religion

430/830M Existentialism and Religious Thought (3) A study of existentialism in its historic (e.g., Kierkegaard's and atheistic (e.g., Sartre) forms, and its relationship to the Schopenhauer and Christian thought.

445/845M Philosophy of Mind (3) A discussion of various accounts of the nature of minds which focuses upon philosophical problems such as whether the mind is an independent being with the brain and the extent of similarity between human minds and the minds of other species and the nature of personal identity, and the relationship of mental activity to behavior.

Physics


375/875 II Electromagnetism and Mechanics I (3) An advanced discussion of electromagnetic and magnetostatic as well as a.c. theory. Premer: Calculus, Physics 325, or permission.

736/876 Electricity and Magnetism I (3) A course in electromagnetic. Topics include Maxwell's equations and methods for their solution, boundary conditions, energy, moment, momentum, and transformations of the fields. Premer: Physics 302/802.

895/885 Thermodynamics and Statistical Mechanics (3) The topics of thermodynamics include the first and second laws of thermodynamics, thermodynamic potential and free energy, an introduction to classical statistics, Bose-Einstein and Fermi- Dirac statistics, and the quantum harmonic oscillator is given. Premer: Calculus and Physics 112 or 212.

905/895 Solid State (3) Behavior of materials in the solid state: energy levels, wave mechanics, optical and electrical phenomena. Premer: Calculus and Physics 325 or permission.

807/877/855 The Theory of Relativity (3) This course includes the general historical background, the important experiments, Lorentz transformations, covariant formulation, applications to electromagnetism and mechanics and applications of the relativistic kinematics, mechanics, and relativistic quantum mechanics including relationships to the general theory. Premer: Calculus and Physics 112 or 212.

12/182M Atomic and Molecular Physics (3) This course includes the application of quantum theory to atomic and molecular physics. Topics include the Schrodinger equation, the Pauli exclusion principle, square wells and simple harmonic oscillator potentials and barriers, one electron atoms, atomic structure, fine structure, angular momentum, selection rules, magnetic effects, ion and coherent bound states, molecular spectra, and the Raman effect. Premer: Physics 111-112 or 211-212 and Physics 325 or the equivalent.

13/141M Nuclear Physics (3) Methodology and principles of nuclear science, nuclear structure, artificial and natural radioactivity, nuclear instability, nuclear properties, techniques, radiations, radiation biology, reactor theory. Premer: Calculus and General Physics 112 or 212.

435/835M Astrophysics (3) Physics and theory of the physical characteristics, distribution, and space motion of stars and stellar systems; internal structure, evolution, and death of stars; structure and properties of stellar atmospheres; interaction of matter and gaseous nebulae; structure and origin of the universe. Premer: Physics 213 or 412 and Calculus I and II (Physics 135 is helpful).

455/855M Quantum Mechanics (3) In this rigorous introduction to quantum mechanics the student becomes familiar with the methods of Schrodinger'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, scattering, bound and scattering states, the nuclear ground state, the energy of a gas; and the nuclear ground state, the energy of a gas; and artificial and natural radioactivities.

495-496/M95-96M Problems in Physics (Each 1-3) Individual laboratory and/or library work in some field of energy, mechanics, electricity, magnetism, and light. Premer: Physics and permission of instructor. For 496: 495 and permission of instructor.

Political Science

403/803M The Presidency (3) The rise of the presidency from Washington to the present. The powers and prestige it holds and how the president uses this power and prestige. Premer: for 403, Political Science 110 and junior standing. Premer: for 803M, Political Science 110 and junior standing.

404/804M The Legislative Process (3) A comprehensive study of the legislative process of the Congress and state legislatures. The semester long project is emphasis is on legislative institutions, processes and behavior. Premer: For 404, Political Science 110 and junior standing.

405/805M The Judicial Process (3) This course is in the administration of justice. It is limited to the federal and state courts with respect to their powers, judicial selection, the bar, and the movement for a more fully developed court system. Premer: for 405, Political Science 110 and junior standing.

412/812M Public Opinion and Political Behavior (3) An analysis of the processes of public opinion formation and change, the relationship of public opinion to public policy and democratic processes, and the effects of public opinion on the operation of the
political system. Prereq: For 813J, junior standing.

417/817M Constitutional Law: Foundations (3) (Also listed under economics, geography, and sociology.) Examination of the theoretical frameworks advanced for the systematic study of the purpose, practices and research on altered states of consciousness. Emphasis on experiential understanding. Daily practice of techniques of eastern psychology with emphasis on the mystical and experiential unities between religious and psychological experiences. Prereq: Psychology 431/831M or 445/845M.

419/819M Constitutional Law: Civil Liberties (3) Analytical examination of American constitutional law as an instrument for civil liberties. Emphasis on the manner in which the Constitution, its amendments and judicial interpretation have served to protect the rights and liberties of individuals. Prereq: For 431, junior standing.

419/819M Constitutional Law: Civil Liberties (3) Analytical examination of American constitutional law as an instrument for civil liberties. Emphasis on the manner in which the Constitution, its amendments and judicial interpretation have served to protect the rights and liberties of individuals. Prereq: For 431, junior standing.

427/827M Animal Behavior (3) Behavior of species selected aspects of the structure and function of the American political system. Emphasis on the period since 1875. Prereq: For 427, junior standing.

429/829M Topics in Political Science (3) A seminar on selected topics based upon analysis of the literature of political science. Prereq: For 429, junior standing or permission of the instructor.

804V Seminar in the Research Methods of Political Science (3) A critical examination of the methods of data collection and analysis utilized by the social and political sciences and public administration research. Prereq: Permission of the graduate advisor. (Also listed under public administration.


815V Seminar in Public Law (3) Prerequisite: The student must have taken a course in law or have permission of the instructor.

431/831M Political Theory I (3) Reviews and analyzes the political theories of western man begun in Political Science 202. Emphasis on the period since 1875. Prereq: For 431, junior standing.

432/832M Political Theory II (3) Continues the review and analysis of the leading political theories of western man begun in Political Science 202 (Political theory I and II), bringing the study down to the present day. Prereq: For 432, junior standing.

433/833M Individual Differences (3) A study of the origins, development, and nature of psychology and its relation to external events; emphasis on the period since 1875. Prereq: For 433, junior standing.

435/835M Psychology of Exceptional Children (3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic and cultural variables of sentence structure, meaning, and speech sound. Prereq: Psychology 310 or 404.

439/849M Retardation (3) This course considers significantly subaverage intellectual functioning as originating during the development of the individual, as well as the concept of retardation or intellectual deficiency associated with impairment in adaptive behavior. Coreq: Psychology 213 or 413.

440/840M Abnormal Psychology (3) A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy, and prognosis of syndromes are considered. Prereq: Psychology 213 or equivalent and Psychology 343.

444/844M Personality Theory (3) An introduction to the many complex factors that contribute to the development of personality. Prereq: None.

445/845M Psychoanalytic Psychology (3) The study of Sigmund Freud, psychoanalytic theories, and their impact on the modern world. Prereq: Psychology 301 or 904 or permission.

450/850M Government and Politics of Great Britain (3) A comprehensive study of British politics and government. Emphasis on the interaction of the formal institutions and informal customs and practices that constitute the political system. Prereq: For 450, junior standing.

451/851M Psychology of Development (3) A study of the processes of change, including the effects of experience on human development. It is also intended to serve as an introduction to the study of human development at the graduate level. Prereq: For 452, junior standing.

452/852M Animal Behavior (3) Behavior of diverse animals for the understanding of the relationship between nervous integration and the behavior manifested by the organism, as well as the implications of this for a near term and long term significance of behavior as a functional unit. Prereq: Psychology 101 and Biology 175 or permission. (Same as Biology 427 and 827.)

453/853M Animal Behavior Laboratory (1) Laboratory and field studies of animal behavior with an emphasis on the behavioral ecology of natural populations. Prereq: Experiences and independent studies will be considered. (Same as Biology 428/828.) Coreq: Psychology 427/827 or current enrollment.

454/854M Psychological and Educational Testing (3) The use of standardized tests in psychology and education is considered with special regard to their construction, reliability, and validity. Prereq: Psychology 102 or 351.

463/863M Individual Differences (3) A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical characteristics, and environment on the existence and magnitude of differences in mental traits. Prereq: 9 hours of psychology, including Psychology 101 and Psychology 213 or equivalent.

464/864M Cognitive Processes (3) An exploration of the processes through which knowledge is represented in the mind. Emphasis on the nature of memory, thought, and perception. Prereq: Psychology 343 or 445/845M.

465/865M Environmental Psychology (3) A study of the effects of urban landscapes on the mental and physical health of their inhabitants. Prereq: Psychology 301 or 904.

470/870M Social Psychology (3) The study of interpersonal relationships, including concepts such as attraction, liking, and similarity; patterns of behavior; and the role of social influence in human behavior. Prereq: Psychology 301 or 904.

480/880M Advanced Study in Psychology (3) The study of one of a selected group of advanced topics in psychology, including the methods and techniques used in the research. Prereq: None.

489/889M Independent Study in Topics of Urbanism (1-2) Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. Prereq: Undergraduate major in one of the social sciences (Also listed under economics, geography, and sociology.)
480/880M Social Work, Psychology, and the Law
(3) An examination of some of the legal aspects of interpersonal relations and specific legal issues such as health, illegitimacy, alcoholism and drug addiction, criminal law and delinquency, discrimination, and the rights of patients, children, and students. Prereq: 16 graduate hours of psychology or equivalent, or permission of instructor. Written permission of the instructor.

800V The Profession of Psychology (0) A required non-credit course for graduate students in psychology. The course will be designed to familiarize the beginning graduate student with the professional requirements expected of the psychologist. The nature and methods of and the research process will be considered. Prerequisites: Permission of instructor.

855V Introduction to Therapeutic Techniques With Children (3) The purpose of this course is to become familiar with play therapy, a technique for the treatment of a variety of problems, especially in the area of child psychology. Prerequisite: Permission of instructor.

865V Practica in Developmental Psychology (4) Faculty-supervised experience in an educational agency designed to acquaint the student with professional contributions of psychology to the classroom and to other psychological assistant or school psychologist program.

854V Individual Tests II (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis upon intelligence testing. Prereq: 16 graduate hours of psychology including comprehensive examination of all required courses for the master's degree and permission of the instructor.

852V Clinical Assessment I: Foundations (3) A study of the principles of learning and testing and their applications to problems of contemporary educational psychology, particularly to those existing in the classroom. Prereq: Psychology 351 or equivalent.

857V Behavior Modification (3) A course in the techniques, rationale, and research literature of changing behavior through reinforcement procedures. Particular attention will be paid to institution and agency clients, from childhood to adulthood. Prereq: Psychology 102 or 343, or permission of the instructor.

858V Psychological and Educational Measurement (3) Advanced, in-depth study of the theory and research on cognitive and linguistic development from infancy to adulthood. Prereq: Psychology 352 or equivalent or permission of instructor.

859V Social and Personality Development (3) A course which provides the student with an in-depth coverage of the research literature on social and personality development. Prereq: Psychology 352 or equivalent or permission of instructor. Written permission of your practicum committee.

859L Laboratory in Educational Psychology (2) A laboratory-oriented course designed to provide the student with practical experience in the field of education. Prereq:Permission of instructor. Written permission of your practicum committee.

861V Analysis of Variance (3) A course providing a theoretical and practical understanding of statistical techniques emphasizing the analysis of variance model. Prereq: Permission of instructor.

862V Multiple Regression and Factor Analysis (3) A course providing a theoretical and practical understanding of statistical techniques emphasizing the analysis of variance model. Prereq: Permission of instructor.

863V Clinical Child Psychology for School Psychologists (3) An advanced course in child psychology, with emphasis upon diagnostic classification, refinement of approaches and techniques of intervention, and consideration of problems encountered by the school age child. Prereq: Permission. (Cross-listed with Psychology 631.)

868V Clinical Psychology (3) A systematic study of the psychological processes underlying behavior. Prereq: Permission of instructor.
988 Practicum in Organizational Behavior (1-6) Faculty supervised experience in industry or business designed to bridge the gap between the classroom and the job. Emphasizing the use of previously acquired knowledge in dealing with practical problems in the personnel department and admission to doctoral work.

996 Research Other Than Thesis (1-12) Research work under supervision. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level. Completion of 4 hours of Psychology 997 and written permission of the Psychology School Committee.

Public Administration


441/441M Public Personnel Management (3) A study of the personnel process in American govern­mental administration. The processes and problems of recruiting, selecting, training, and evaluating public employees. Emphasis will be placed on those aspects of personnel management, including diagnosis, design, implementation, and evaluation. Prereq: Psychology 965 and Psychology 32Y (Psychology 32Y may be taken concurrently).

996 Practicum in School Psychology (1-6) Faculty supervised experience in industry or business designed to bridge the gap between the classroom and the job. Emphasizing the use of previously acquired knowledge in dealing with practical problems in the personnel department and admission to doctoral work.

996 Research Other Than Thesis (1-12) Research work under supervision. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level. Completion of 4 hours of Psychology 997 and written permission of the Psychology School Committee.

Public Administration


441/441M Public Personnel Management (3) A study of the personnel process in American govern­mental administration. The processes and problems of recruiting, selecting, training, and evaluating public employees. Emphasis will be placed on those aspects of personnel management, including diagnosis, design, implementation, and evaluation. Prereq: Psychology 965 and Psychology 32Y (Psychology 32Y may be taken concurrently).

996 Practicum in School Psychology (1-6) Faculty supervised experience in industry or business designed to bridge the gap between the classroom and the job. Emphasizing the use of previously acquired knowledge in dealing with practical problems in the personnel department and admission to doctoral work.

996 Research Other Than Thesis (1-12) Research work under supervision. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level. Completion of 4 hours of Psychology 997 and written permission of the Psychology School Committee.

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441/441M Public Personnel Management (3) A study of the personnel process in American govern­mental administration. The processes and problems of recruiting, selecting, training, and evaluating public employees. Emphasis will be placed on those aspects of personnel management, including diagnosis, design, implementation, and evaluation. Prereq: Psychology 965 and Psychology 32Y (Psychology 32Y may be taken concurrently).

996 Practicum in School Psychology (1-6) Faculty supervised experience in industry or business designed to bridge the gap between the classroom and the job. Emphasizing the use of previously acquired knowledge in dealing with practical problems in the personnel department and admission to doctoral work.

996 Research Other Than Thesis (1-12) Research work under supervision. May be repeated up to a total of 12 credit hours. Prereq: Enrollment in a graduate program beyond the master's level. Completion of 4 hours of Psychology 997 and written permission of the Psychology School Committee.
practice will be explored. Prereq: Statistics, or permission of instructor.

810V Social Work Practice (Gen) (2) This course is designed to introduce students to the common core of concepts, skills, and activities involved in the practice of social work and which serve as a foundation for further professional growth. Prereq: SW 800V or permission.

812V Social Work Practicum II (Micro) (2) This is an introductory course for graduate social work students focusing on basic theory and principle of social work practice with individuals, families and small groups. Prereq: SW 800V, SW 810V.

814V Social Work Practice III (Macro) (2) This is an introductory course for graduate social work students which surveys basic theories and principles of social work practice with organizations, institutions, and communities, and includes social assessment of the behaviors, community organization, administration, and political/public aspects. Prereq: SW 800V, SW 810V plus 805V prior to or concurrent with.

815V Social Work Practicum I (3) This course will provide supervised individual learning experiences in selected social work agencies, institutions, and communities. The emphasis will be on developing interpersonal, professional, and ethical decision-making skills. Prereq: Concurrent with or subsequent to SW 810V, SW 814V.

Micro Practice Courses

822V Micro Intervention (3) (2) To provide students focusing on basic the o ry and principles of social work practice role s ; Concurrent with or subsequent to SW 822V, or permission of instructor.

826V Gestalt-Transactional Analysis (3) An intensive didactic and experiential course designed to give students in-depth knowledge and understanding of the Gestalt and Transactional Analysis (TA) and Gestalt therapy. Prereq: SW 820V or permission.

827V Issues in Human Sexuality for Social Workers (3) An intensive didactic and experiential course in the study of theory and research in human sexuality, with a primary focus on the personal and social-cultural dynamics influencing communication regarding sexual functions, sex roles in education for specific client systems, and the culturally diverse experiences of the cases of sexual dysfunction and current rationale for treatment. Prereq: SW 820V, HED 822V, or permission of instructor.

Practicum Courses

840V Advanced Social Work Practicum I (3-4) To provide individualized professional experience in micro or macro social work practice. Prereq: SW 817V or equivalents, 820V prior to or concurrent with, or either 850V/852V/854V prior to or concurrent with.

841V Advanced Social Work Practicum II (3-4) To provide individualized professional experience in micro or macro social work practice, building upon opportunities provided and achieved in Advanced Practicum I. Prereq: SW 840V.

842V Advanced Social Work Practicum III (1-4) To provide a third advanced practice opportunity in selected social work agency practice setting for refinement/addition of micro or macro social work practice skills. Prereq: SW 841V.

Macro Practice Courses

850V Social Problem/Condition Courses

852V Social Work Administration (3) A study of the principles of social welfare program planning and implementation. Prereq: SW 805V, SW 814V, SW 817V, or permission of instructor.

854V Social Work Planning (3) An advanced course in social planning, including determination of program design and effective­ tion. Prereq: SW 814V, SW 817V or equivalent, or permission of instructor.

855V Advanced Policy Analysis and Implementa­ tion (3) An intensive didactic and experiential course in policy analysis, policy development and implementation for social workers. Prereq: SW 817V, or equivalents, or permission of instructor.

Social Problem/Condition Courses

846/863M Social Work in Child Care (3) This course is designed for the student to acquire an understanding of the role of the child welfare program and services designed to strengthen family living. The purposes of the family. The purposes of the child welfare programs covered are: (1) institutional care, (2) foster care, (3) adoption care, (4) community care, and (5) substitute care. Prereq: SW 810 or permission of instructor.

846/866M Social Work in Child Care (3) This course is designed for the student to acquire an understanding of the role of the child welfare program and services designed to strengthen family living. The purposes of the family. The purposes of the child welfare programs covered are: (1) institutional care, (2) foster care, (3) adoption care, (4) community care, and (5) substitute care. Prereq: SW 810 or permission of instructor.

847V The Human Ecology of Child Abuse and Neglect: An Analysis of Research and Intervention (3) This course will provide the student with a review of existing literature on the meaning, origins, and consequences of child abuse and neglect. Prereq: SW 805V or permission of instructor.

852V Social Work Administration (3) A study of the principles of social welfare program planning and implementation. Prereq: SW 814V, SW 817V or equivalent, or permission of instructor.

857V Anthropology (3) The course is designed to introduce students to the major areas of anthropology and to familiarize them with the various methodologies used in anthropological research. Prereq: Anthropology (3) The course is designed to introduce students to the major areas of anthropology and to familiarize them with the various methodologies used in anthropological research. Prereq: Anthropology 480/480M or equivalent.

858V Topical Seminar in Social Work (2-4) An advanced course in selected social work theory and practice, to be announced when the course is offered. The student is expected to be consistent with faculty expertise and student needs. This course may be repeated for up to nine hours credit. Prereq: Graduate Standing.

Special Studies and Social Welfare Research Courses

890V Special Studies in Social Work I (3) Special studies in a selected area of social welfare for deepening the student's knowledge in that particular area. Prereq: Permission of instructor.

892V Seminar in Utilization of Research in Social Work (3) Emphasis is placed on the utilization of research in social work practice. Prereq: SW 809V or equivalent, or permission of instructor.

894V Evaluation of Social Programs (3) A study of the various issues and methodologies of social programs evaluation. Prereq: SW 809V or equivalent, or permission of instructor.

Sociology

888M Topical Seminar in Social Work (2-4) An advanced course in selected social work theory and practice, to be announced when the course is offered. The student is expected to be consistent with faculty expertise and student needs. This course may be repeated for up to nine hours credit. Prereq: Graduate Standing.

895V Master's Thesis (6) Under the supervision of the thesis instructor and the thesis committee, the student will complete a thesis of not less than 6 semester hours. Prereq: SW 809V or equivalent, or permission of instructor.

Anthropology

820M Urban Anthropology (3) The course is designed to examine the city from an anthropological point of view. It will provide an overview of its history and the processes by which it has grown and as well as the internal structure and processes within the city itself. Topics covered will include the evolution and development of the city and of the urban landscape and of cities in both the so-called "third-world" countries as well as in the developed, industrialized areas. Graduate students will be required to do a substantive term paper on a topic mutually acceptable to both the instructor and the student. In addition to the written work, the student will also be required to make an oral presentation in
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class of the research done and the major findings. 

Permission of the instructor.

421/821M Cultural Anthropology (3) Arts, ec

secutive impact on a group's self-image. Prereq: Permission of the instructor.
422/822M North American Archaeology (3) Archaeologi

The development of ancient world agricul
ture, development of middle America civiliza
tions, and their impact on core areas of village

The development of middle American civili
dations, and their impact on core areas of village

Permutation of the instructor.

421/821M Urban Geography (3) A geography of the c

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422/822M North American Archaeology (3) Archaeologi
cultural anthropology, and to taxonomic relations.
Prereq: For 422, Anthropology 105 or 421. For 822M, permission.

452/825M Psycholinguistics (3) A discussion of the lit

cultural anthropology, and to taxonomic relations. 
Prereq: For 422, Anthropology 105 or 421. For 822M, permission.

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Prereq: For 422, Anthropology 105 or 421. For 822M, permission.
ing to urbanism. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work on one of the social sciences. (Also listed under Psychology, Anthropology, and Sociology.)

835V/884V Interdisciplinary Seminar On The Urban Community (3-6) An interdisciplinary course in the urban community in which various departmental and college offerings concern- ing urban problems are involved. Prereq: permission of the instructor. Focus: Urban Education

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Teacher Education

Curriculum and Instruction

864V Visual-Verbal Medial Arts in Education (3) An introduction to the theory, history, organization, selection, and utilization of educational technology devices and materials. Prereq: Graduate standing and permission of the instructor.

847V/887M Preparation of Instructional Materials (3) A basic course in the preparation of inexpensive educational materials for the classroom. Prerequisites: English Composition I and II.

888M Photography as an Instructional Medium (3) This course is designed for those teachers interested in the practical application of photography as an instructional tool in their classrooms. Prereq: C&I 486/486M or permission of instructor.

890V Introduction to the Education of the Gifted (3) A series of intensive courses especially for teachers in service scheduled as regular seminars. Prereq: Admission to Graduate College.

892V Teaching the Gifted and Talented (3) This course will focus upon the processes for developing a total sequential program of instruction for gifted children. Prereq: Admission to Graduate College.

895V Planning and Production (3) The course will concern itself with the study of the various factors/styles that affect planning and production. Prereq: Admission to Graduate College and C&I 890V: Introduction to the Education of the Gifted or 892V: Teaching the Gifted and Talented.

899V Creative and Critical Thinking in Elementary Education (3) An examination of the philosophy of creative and critical thinking and its application in the elementary classroom. Prereq: Admission to Graduate College.

899V/900V Workshop in Science Education (3) Designed as an advanced study for the mathematics teacher, this course will focus on the behavior of matter in the various subject areas of the educational program.

899V/900V Workshop in Social Studies Education (3) Designed as an advanced study for the social studies teacher, this course will focus on the behavior of the various social studies disciplines in the various subject areas of the educational program.

899V/900V Workshop in Language Arts (3) Designed as an advanced study for the language arts teacher, this course will focus on the behavior of the various language arts disciplines in the various subject areas of the educational program.

899V/900V Workshop in Art Education (3) Designed as an advanced study for the art teacher, this course will focus on the behavior of the various art disciplines in the various subject areas of the educational program.

899V/900V Workshop in History Education (3) Designed as an advanced study for the social studies teacher, this course will focus on the behavior of the various history disciplines in the various subject areas of the educational program.

899V/900V Workshop in Music Education (3) Designed as an advanced study for the music teacher, this course will focus on the behavior of the various music disciplines in the various subject areas of the educational program.

899V/900V Workshop in Physical Education (3) Designed as an advanced study for the physical education teacher, this course will focus on the behavior of the various physical education disciplines in the various subject areas of the educational program.

899V/900V Workshop in Home Economics Education (3) Designed as an advanced study for the home economics teacher, this course will focus on the behavior of the various home economics disciplines in the various subject areas of the educational program.

899V/900V Workshop in Business Education (3) Designed as an advanced study for the business education teacher, this course will focus on the behavior of the various business education disciplines in the various subject areas of the educational program.

899V/900V Workshop in Special Education (3) Designed as an advanced study for the special education teacher, this course will focus on the behavior of the various special education disciplines in the various subject areas of the educational program.

899V/900V Workshop in General Education (3) Designed as an advanced study for the general education teacher, this course will focus on the behavior of the various general education disciplines in the various subject areas of the educational program.

899V/900V Workshop in Professional Education (3) Designed as an advanced study for the professional education teacher, this course will focus on the behavior of the various professional education disciplines in the various subject areas of the educational program.

899V/900V Workshop in Adult Education (3) Designed as an advanced study for the adult education teacher, this course will focus on the behavior of the various adult education disciplines in the various subject areas of the educational program.

899V/900V Workshop in Vocational Education (3) Designed as an advanced study for the vocational education teacher, this course will focus on the behavior of the various vocational education disciplines in the various subject areas of the educational program.
847V Materials Laboratory for The Social Studies (3) This course is designed to acquaint social studies teachers for the classroom. Prerequisite: Graduate standing. Coreq: Mathematics 35 J and graduate standing.

482/882M Literature for The Adolescent (3) This course is designed to assist library media specialists, English and foreign language teachers, and other content area teachers with the selection of materials for use with pre-service secondary school teachers of adolescents. Prerequisite: Admission to Graduate College. 

487V/887M Reading Diagnosis and Remediation for the Pre-service Teacher (3) This course is designed for those who have completed at least one graduate reading course (or equivalent) and who are professional workers in the field of education. Prerequisite: Admission to Graduate College. 

899V Thesis (1-15) Independent research project required of all students taking master of arts degree. See major adviser.

Library Sciences

871M Reference and Bibliography (3) This course will examine the reference function of libraries. It is designed for students with the basic tools of reference work and with the techniques of assisting library users in their pursuit of information. Prerequisite: Admission to Graduate College.

872M Reference and Advanced Subject Bibliography (3) This course will provide an advanced reference philosophy or the collection, organization, and analysis of current information in each of the content subject areas and in the senior and junior college levels.

901 Seminar in Organization and Administration of Reading Programs (0) Participation in the seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and who are professional workers in the field of education. Prerequisite: Admission to Graduate College.

917 Seminar in Secondary Education (3) This course is designed to develop new cataloging skills in students who are interested in the improvement of cataloging. Coreq: Admission to Graduate College.

918M Problems of Secondary/Higher Education (3) This course is designed to acquaint students with the techniques of coordination for the vocational teacher-coordinator and or vocational coordinator, with special emphasis upon the administration of the post-secondary cooperative program and analysis of the laws and regulations governing this program. (S,Su)

918M Adult Education (3) A study of adult education as a function of society and the characteristics of adult learners who are professional workers in the field of education. Prerequisite: Admission to Graduate College.

940 Problem Seminar in Secondary Education (3) This course is designed to acquaint social studies teachers with the techniques of teaching field under faculty supervision. Prerequisite: Admission to Graduate College.

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849V Seminar in Social Studies Curriculum Construction (3) This course is designed for social studies supervisors, school administrators, teachers, and students who are interested in designing and coordinating curricula for the social studies.

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

852V Foundations in Business Education (3) Designed to develop a deeper and broader understanding of business education to identify and define business education and to examine its past, present, and future role in the total education pattern of our country in today's world.

853V Seminar in Mathematics Education (3) A graduate seminar in K-12 mathematics education emphasizing recent curriculum developments, curriculum planning and evaluation, research, mathematics supervision, and contemporary issues in mathematics education. Prereq: Graduate standing and permission of instructor.

855V Improvement of Instruction of Secondary School Science (3) This course is designed for graduate students in education who wish to become better informed about the recently developed programs for secondary science; the methods, materials, philosophy, and emphasis instructional techniques which are characteristic of these programs.

865V Science Education Seminar (3) A graduate seminar in K-12 science education emphasizing research, newly developed science curricula, curriculum planning, science supervision and treatment of one or more localized science education issues.

866V Trends and Teaching Strategies in Science Education (3) The course is designed for the graduate student whose study program emphasis is in the area of science education. Its focus will be K-12 and as such is meant to serve graduate students in both elementary and secondary education departments. The course will describe and analyze past and present trends in science education including curricula, teaching learning strategies, the laboratory, and instructional materials. Particular strategies that have merit and relevance concerning today's students and teachers will be treated in depth.

870V Introduction to Special Vocational Needs (3) Designed for secondary education personnel who desire knowledge of the history and current status of Special Vocational Needs. Students will gain a better understanding of handicapped and disadvantaged students. Prereq: Admission to Graduate College.

871V Improvement of Vocational Curriculum for the Special Needs Learner (3) Designed for secondary education personnel who desire competency in developing curriculum modification to meet individual needs of students who are unable to succeed in a regular classroom setting. Prereq:
ROBERT L. ACKERMAN Teacher Education Ed.D., University of Nebraska-Lincoln, 1966; Professor

PAUL B. ACKERSON Teacher Education Ed.D., Oklahoma State University, 1965; Professor

JAMES C. AKERS Counseling and Special Education Ed.D., Oklahoma State University, 1969; Associate Professor

LARRY ALBERTSON Health, Physical Education & Recreation Ed.D., University of Georgia, 1973; Associate Professor

DAVID M. AMBROSE (GF) Marketing D.B.A., George Washington University, 1971; Professor

CLIFFORD ANDERBERG Philosophy and Religion Ph.D., University of Wisconsin-Madison, 1953; Professor

SUNNY ANDREWS Social Work Ph.D., Johns Hopkins University, 1973; Associate Professor

AARON ARMFIELD Counseling and Special Education Ed.D., University of Northern Colorado, 1964; Professor

KATHLEEN G. AUERBACH Sociology Ph.D., University of Minnesota, 1976; Assistant Professor

WALTER M. BACON, JR. Political Science Ph.D., University of Denver, 1974; Assistant Professor

BRUCE P. BAKER II English Ph.D., Texas Christian University, 1968; Professor

GEORGE W. BARGER Sociology Ph.D., University of Missouri-Columbia, 1964; Professor

NICHOLAS BARISS Geology and Geophysics Ph.D., Clark University, 1967; Professor

OTTO F. BAUER (GF) Communication Ph.D., Northwestern University, 1939; Professor

GEORGE M. BECKER (GF) Psychology Ph.D., University of Pittsburgh, 1955; Professor

JOSEPH V. BENAK Civil Engineering Ph.D., University of Illinois-Urbana, 1967; Professor

ROBERT W. BENECKE Banking and Finance D.B.A., University of Colorado-Boulder, 1966; Professor

HOBART BURCH Health, Physical Education and Recreation Ed.D., University of Nebraska-Lincoln, 1973; Associate Professor

JOSEPH BERTINETTI Counseling and Special Education Ph.D., University of New Mexico, 1972; Associate Professor

JOHN V. BLACKWELL Art Ph.D., University of Iowa, 1957; Professor

RICHARD H. BLAKE Counseling and Special Education Ed.D., University of Missouri-Columbia, 1966; Professor

DANIEL BLANKE Health, Physical Education and Recreation Ph.D., University of Oregon, 1975; Assistant Professor

WILLIAM BLIZEK (GF) Philosophy and Religion Ph.D., University of Missouri-Columbia, 1970; Professor

JOHN K. BRILHART (GF) Communication Ph.D., Pennsylvania State University, 1962; Professor

THOMAS BRAGG Biology Ph.D., Kansas State University, 1974; Associate Professor

M. JEAN BRESSLER Teacher Education Ph.D., University of Nebraska-Lincoln, 1965; Associate Professor

JOHN K. BRILHART (GF) Communication Ph.D., Pennsylvania State University, 1962; Professor

EYAN L. BROWN (GF) Psychology Ph.D., University of Washington, 1959; Associate Professor

WILLIAM M. BROWN Marketing Ph.D., University of Pittsburgh, 1957; Professor

BARTH BUCHALTER Mathematics and Computer Science Ph.D., University of Arizona, 1968; Professor

H. EDSEL BUCHANAN Health, Physical Education and Recreation Ed.D., University of Houston, 1975; Associate Professor

SIDNEY BUCHANAN Art M.A., New Mexico Highlands University, 1964; Professor

DAVID M. BUEHLMANN Accounting Ph.D., University of Illinois, Urbana, 1975; Associate Professor

DALE M. BUNSEN Teacher Education Ed.D., University of Nebraska-Lincoln, 1968; Professor

HOBART BURCH Social Work Ph.D., Brandeis University, 1965; Professor

RONALD R. BURKE Philosophy and Religion Ph.D., Yale University, 1974; Associate Professor
ERNEST J. KEMNNITZ JR. Chemistry Ph.D., University of Nebraska-Lincoln, 1971; Associate Professor
PAUL C. KENNEDY Educational Administration- Supervision Ed.D., University of Kansas, 1955; Professor
JOHN KERRFEG (GF) Public Administration Ph.D., University of Colorado, 1973; Professor
THOMAS R. KIDD Health, Physical Education and Recreation Ed.D., University of Oregon, 1970; Professor
BRUCE A. KIRCHHOFF (GF) Management and Organizational Behavior Ph.D., University of Utah, 1972; Professor
KENT KIRWAN (GF) Political Science Ph.D., University of Chicago, 1970; Associate Professor
EZRA KOHN Social Work Ph.D., University of Nebraska, 1972; Associate Professor
BARNARD L. KOLASA Political Science Ph.D., University of Nebraska-Lincoln, 1969; Associate Professor
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