Graduate Catalogs

1982

Graduate Academic Catalog (1982-1984)

University of Nebraska at Omaha

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University of Nebraska at Omaha

Graduate Catalog

1982-84
University of Nebraska at Omaha
Graduate Catalog
1982-84

$1.00
The Official Catalog of
The University of Nebraska at Omaha
Volume XXXIX, Number 2
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THE UNIVERSITY OF NEBRASKA AT OMAHA

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ACADEMIC CALENDAR

First Semester 1982-83
July 9
Last day for submitting credentials for admission to Graduate Studies for First Semester 1982-83.

July 12-Aug. 27
Orientation.

July 27
Last day for submitting credentials for admission to the undergraduate college for the First Semester 1982-83.

Aug. 18, 19, 20
Registration (Fieldhouse).

Aug. 23
First semester begins at 7:00 a.m. both day and evening classes.

Aug. 26-27
Change of class schedule.

Aug. 27
Last day until 6:00 p.m. to: Add a course to student's schedule; Add an "audit" course; Change to "CR/NC" grade in a course.

Sept. 6
Vacation; no classes. University closed.

Sept. 7
Vacation; no classes.

Oct. 4
Last day for filing applications for degrees to be conferred in December.

Oct. 15
Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.

Nov. 5
Last day until 6:00 p.m. to: Drop a course with a grade of "W"; Change a course to an "audit" credit; Change from "CR/NC" to grade registration in a course.

Nov. 24-28
Thanksgiving vacation; no classes.

Nov. 29
University closed.

Nov. 30
Classes resume at 7:00 a.m.

Dec. 10
Last day for submitting credentials for admission to Graduate Studies for Second Semester 1982-83.

Dec. 10
Last day of classes.

Dec. 11-17
Finals.

Dec. 18
Commencement.

Dec. 22
Grades due in Registrar's Office at 12:00 noon.

Dec. 23-24
Holiday. University closed.

Dec. 31
Holiday. University closed.

Dec. 27-Jan. 7
Special course offerings.

Second Semester 1982-83
Jan. 1
Holiday. University closed.

Jan. 3
Last day for submitting credentials for admission in undergraduate college for the Second Semester 1982-83.

Jan. 3-7
Orientation.

Jan. 5-6, 7
Registration (Fieldhouse).

Jan. 10
Second semester begins at 7:00 a.m. both day and evening classes.

Jan. 10-14
Change of class schedule.

Jan. 14
Last day until 6:00 p.m. to: Add a course to student's schedule; Add an "audit" course; Change to "CR/NC" grade in a course.

March 4
Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates. Also last day for filing applications for degrees to be conferred in May.

March 25
Last day until 4:00 p.m. to: Drop a course with a grade of "W"; Change a course to an "audit" credit; Change from "CR/NC" to grade registration in a course.

March 29-31
Spring vacation; no classes.

March 29
Spring Break (Fieldhouse).

April 12
Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 1982-83.

April 12
Honors Day.

April 21
Status report for all prospective graduating students due in Registrar's Office at 12:00 noon.

April 29
Last day of classes.

April 30-May 6
Finals.

May 7
Commencement.

May 9
Last day for filing credentials for admission to Graduate Studies for the First Summer Session, 1983.

May 11
Grades due in Registrar's Office by 12:00 noon.

May 30
Memorial Day; University closed.
June 1-2
First Summer Session.

June 6-8
Change of class schedule.

June 9
Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1983.

July 4
Holiday; University closed.

July 5
Last day for filing applications for degrees to be conferred August 13, 1983.

July 6-8
Last day for submitting credentials for admission to Graduate Studies for the First Semester 1983-84.

July 9
Second Summer Session

July 11-Aug. 12
Last day for submitting credentials for admission to an undergraduate college for the First Semester 1983-84.

July 28
Status report for all prospective graduating students due in Registrar's Office by 12:00 noon.

Aug. 13
Summer Commencement.

Aug. 17
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.

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### 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:

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<th>Master of Arts</th>
<th>Master of Science</th>
<th>Other</th>
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*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 Department, UN-L.

**English 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 1965 and the Master of Public Administration was authorized in 1970.

Recognizing the growing importance of graduate education, the term "Graduate Division" was authorized in 1949. In October, 1962, the Board of Regents established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College. 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, practices, research and special problems 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, 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 in the provision of educational and related services, and to establish organizational structures and
procedures which will assure equal treatment and equal access to the facilities and educational benefits of the institution for all students.

Pursuant to this policy statement, UNO will undertake a continuing program of compliance with all those addressing the obligations of the institution under Title VI of the Civil Rights Act of 1964 as amended, Title IX of the Education Amendments of 1972, and Sections 503 and 504 of the Rehabilitation Act of 1973.

Title IX Coordinator

Title IX of the Education Amendments of 1972 is a law forbidding discrimination based on sex. If you have complaints concerning sexual discrimination, that is University related, you should contact Dr. Richard E. Hoover, Vice Chancellor for Student Services. Dr. Hoover is also the Title IX Coordinator. Dr. Hoover's office is located in Room 211, Eppley Administration Building, 544-2779.

Handicapped Students and Title 504

The University of Nebraska at Omaha adheres to equal opportunity and affirmative action. The University does not discriminate against the handicapped. If a student feels he/she has been discriminated against because of a handicapping condition, he/she should contact the 504 Coordinator, Dr. Richard E. Hoover, Room 211, Eppley Administration Building, 544-2779, or Ms. Barbara Hewins-Maroney, Coordinator, Room 117, Eppley Administration Building.

Most University programs, services and activities are accessible to the handicapped.

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

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 appropriate correction. The institution must obtain the written consent of students before releasing identifiable data about students from records to other than a special list of exceptions, and that students must be

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

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

DEGREE PROGRAMS

All graduate degrees are awarded by the University of Nebraska system, with each campus having the responsibility of establishing and maintaining individual standards and requirements.

All departmental requirements must be in accord with the policies and practices of the Graduate College.

Master of Arts or Master of Science Degree

A departmental or interdisciplinary program for either the Master of Arts or Master of Science degree.

Option I. A 30 semester-hour program (maximum of 6-hour thesis credit included) as determined by the cognizant Graduate Program Committee.

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

Master of Arts for Teachers of Mathematics

This is a specialized graduate degree designed to provide secondary school mathematics teachers with additional depth in mathematics combined with a relevant professional coursework in education.

Master of Business Administration Degree

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

Master of Public Administration Degree

This is a professional degree designed to provide broad educational experience for students who wish to assume positions of responsibility in government.
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 study. These tests are given at UNO under the supervision of the Director, Counseling and Testing Center. Registration deadlines and testing dates are available from the Counseling and Testing Center, Eppley Building. A nominal fee is charged for the examinations. Students who are admitted to the Unclassified classification are not required to take an entrance examination.

Applicants to the MBA program cannot be admitted in the Unclassified category.

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 the test previously and have made the scores available to the Dean for Graduate Studies and Research. The advanced area test is also required unless this test has been waived by the cognizant Graduate Program Committee.

A student who has not taken the GRE prior to application for admission to Graduate Studies, but who determines that it would be helpful, may be granted provision to take the GRE. A student who has already taken the GRE but whose scores are less than 550, may be granted provision to retake the GRE. Students who wish to be admitted to Psychology Department programs are required to submit General Aptitude (GRE) scores before being considered for admission.

Students who wish to be admitted to the Biology program are required to submit GRE scores (General Aptitude 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 MAT 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 Special Education department, which will schedule a limited number of group administrations of the test.

Students who wish to be admitted to Social Work may take the Miller Analogies Test in lieu of the Graduate Record Examination.

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.
   2. Attendance for at least one year at a regionally accredited institution or a degree program at an institution in which instruction was English.

B. Requirement: Students scoring below 500 on the TOEFL must take the English Department ESI 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.

The above tests 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 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

Unconditional admission to graduate study may be granted to students who have a Bachelor's degree from a regionally accredited institution, who has earned at least a B average in the undergraduate work in his proposed graduate major and minor, and who presents at least fifteen semester hours of undergraduate work in specific requirements of the departments in his graduate major and minor. In addition to the specified transcript record, appropriate scores on the Graduate Record Examination, Miller Analogies Test, or the Graduate Management Admissions Test must be supplied to the Dean for Graduate Studies and Research.

II. Provisional

Provisional admission may be granted to a student who has a Bachelor's degree from a regionally accredited institution but who has not completed all of the requirements for admission to graduate study. 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 in his proposed graduate major and minor (but in no case less than a C average) upon recommendation of the Chairperson of the Graduate Program Committee of the major department (and minor if one is involved) and written approval by the Dean for Graduate Studies and Research. This admission may be granted for reasons of maturity, experience, or other circumstances in which the student may be deemed capable of high quality graduate study. Provisional admission will not be removed unless the student is successfully demonstrated to the satisfaction of the department and the Dean his ability to pursue graduate study. Specifically, a student must earn at least the grade of B in each course involved in the first twelve hours of graduate study. A grade of C or below in any of these courses will result in automatic dismissal.

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

III. Unclassified

Unclassified admission is available in some departments for students who:

1. Are taking courses for professional growth or personal interest, but do not intend to pursue an advanced degree.
2. Are enrolled in an advanced degree program at another institution and wish to transfer credits earned at UNO.
3. Are working toward certification, additional endorsement, or renewal of certification in Education.

Information on the availability of this option may be obtained from the department or from the Office of the Dean for Graduate Studies and Research.

Entry examinations are not required for the Unclassified Admission. The MBA program does not admit students in the Unclassified category.

Students wishing to enroll under the Unclassified designation must obtain, each semester, the signature of an authorized advisor from each of the departments in which courses are to be taken. The Quality of Work standards will apply to all coursework taken under the Unclassified status, just as if all such courses were included in a graduate plan of study.

Students who have enrolled under the Unclassified designation and who subsequently decide that they wish to pursue a graduate degree must complete and file a Request for Change form with the Graduate Office. PLEASE NOTE: Successful completion of graduate courses as an Unclassified student does not obligate a graduate department to accept those courses for credit toward the fulfillment of degree requirements. A Grade of D or below in a degree program is later sought and grade point average of 2.0, the student is not to receive the inclusion of graduate credits earned while holding Unclassified status, such course credit (s) may be counted toward the degree at the discretion of the cognizant Graduate Program Committee. An approved Request for Change must be accompanied by a departmental recommendation if any specified credit hours earned while in an Unclassified status are to be counted toward the degree.

Permanently Unclassified status will be issued to Unclassified students on the last day of any given registration period.

In addition to the three regular classifications of admission, there are two special classifications of admission to graduate study which can be used in exceptional cases:

I. Acceptance of Senior Credits

Seniors at an accredited institution who have obtained in advance the approval of the appropriate campus Dean for Graduate Studies and Research may receive up to twelve hours credit for graduate courses taken at any campus of the University of Nebraska System in addition to the courses necessary to complete their bachelor's degree. The coursework, with the approval of the dean, 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.
II. Temporary Admission

When unexpected circumstances preclude processing applications for Unconditional, Provisional, or Unofficial Graduate Admission, the Dean for Graduate Studies and Research must deny admission. A student enrolling with temporary admission must, within the first eight weeks of the semester, furnish the Graduate Office with all materials required by the cognizant department (including transcripts of all grades earned prior to the student's 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. The qualifications are: (1) the scores on the Graduate Record Examination, the Miller Analogies Test, or the Graduate Management Admission Test; (2) a minimum of six (6) hours of graduate credit must have been completed within the Graduate College of the University of Nebraska at Omaha; and (3) a grade average of "B" with no grade lower than "C" on all work taken which is included in the Plan of Study. Any incomplete courses (inclusive of those transferred) must be removed before the student's candidacy for the degree is completed. 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 half of the coursework that must be completed after application for candidacy.

Temporary admission will not be extended to students in the Provisional or Unofficial Graduate Admission Program Committee and 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. Therefore, such credits must be individually evaluated by the appropriate Graduate Program Committee and the transfer and applicability of credits earned in one program to another.

A student may be awarded in the same semester as candidacy for the degree is approved. A maximum of fifteen (15) hours of course work used to satisfy the requirements of a previous graduate degree may be applied to a second graduate degree if such hours are approved by the Graduate Program Committee of the department in which the second degree is sought.

Application forms should be filed 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 filled with the major adviser who then secures the necessary signatures from the Graduate Office, after all signatures are secured, provided that the student is in good standing in the Graduate Faculty.

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It is the responsibility of the student to become familiar with the "Instructions for the Preparation of Theses," a copy of which may be obtained in the Graduate Office. The thesis must be approved by the student's thesis committee and submitted to the Graduate Office in final form with the signatures of the committee members and the approval sheet of the Dean for Graduate Studies and Research prior to the beginning of the semester in which the degree will be conferred. The cost of binding three copies (see Fee) must be paid by the candidate at the time the thesis is submitted in final form to the Graduate Office. If the department conducting the thesis requires an additional copy, it is to be bound at the student's expense. The fees are payable in the Cashier's Office.

ORAL EXAMINATION ON THESIS

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

It is the student's responsibility to determine the proper number of copies of the corrected and approved theses in the Graduate Office together with the signed approval sheets at least twelve working days prior to the commencement of graduation ceremonies.

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

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 grade-carrying courses in the degree program carrying a grade of "C." Nonetheless, 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 thus dropped must secure the approval of the COGNIZANT GRADUATE COMMITTEE OR ACADEMIC ADVISER as the selection for the committee and the approval of the Dean for Graduate Studies and Research before he is allowed to take coursework as an unclassified student. The student may NOT be a candidate for the degree unless reinstated by the Dean for Graduate Studies and Research.

The above quality of work standards also apply to unclassified students. A student, upon consent of his advisor, may repeat a course in which he has previously received the grade of "D" or below. The course grade will appear on the transcript but only the second grade will be used in determining the grade point average.

INC. — The grade "INC. " is to be used by an instructor at the end of a term to designate incomplete work in a course. It should be used when a student, due to extenuating circumstances such as illness, military service, or a death in the immediate family, is unable to complete the requirements of the course in the term in which the student is registered for credit. Incompletes should be given only if the student has already substantially completed the major requirements of the course.

Each instructor must judge each situation. The instructor must also indicate by a departmental record, with a copy to the student, bow and by when the Incomplete is to be removed, and if he/she is at the University at the time of the removal, supervise the makeup work and report the grade to the Registrar.

In the event that the instructor is not available at the time of the student's application for removal of an Incomplete, the student's advisor shall supervise the removal of the Incomplete and turn it in the permanent grade for the student.

NOTE: Two or more incompletes (excluding research projects and theses) will result in a stop enrollment for any new course. If such a student desires to continue his work, he must complete all Graded Incompletes must be completed within one semester (excluding summer sessions) after they have been awarded. Incomplete grades will be turned into a grade of "F." Any extensions to the one semester time frame must be arranged with the Dean for Graduate Studies and Research prior to the Incomplete being changed into a grade of "F." Some departments allow extra time for removing Incompletes in certain courses. Contact the department involved to find out which courses come under this provision. Incompletes for research projects and theses may not extend beyond two years from the date the "I" was recorded unless approval is granted by the Dean for Graduate Studies and Research and the student records for the course.

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

CHANGE OF MAJORS

Students may not change majors while they have two or more "incompletes" on their record. The decision to accept students who wish to change majors will be left to the Graduate Program Committee of the department in which they are seeking admission.

POLICY ON CLASS ATTENDANCE

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

If a student is absent or anticipates an absence, the student's primary responsibility is directly to the instructor, and the student should consult with them accordingly. A student who misses a required instruction or test is responsible for any 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 instructors and be prepared to document the reason for extended absences.

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

Appeal procedure: "Should there be cause on the part of individuals involved to feel that the reasons for absence were not considered with equity, a decision with punitive consequences may be appealed. The initial appeal procedure is the same as that provided for in each departmental unit for other academic, classroom-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 student may appeal to the appropriate college committee designated for hearing such grievances.

The committee makes a recommendation to the instructor, and the dean's decision is then conveyed to the student. If the 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 as an appellate function in hearing appeals of students who feel aggrieved on the basis of decisions rendered by the academic deans.

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

The ruling 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 CONCERNING GRADUATE STUDENTS

1. Appeal of general academic matters related to program standards.
   A. Graduate students holding admission with classified status in the Graduate College, admission with a major in an area that requires an academic dean's decision (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 Committee.
   3. If denied, an appeal may be made to the Graduate Program Committee for the student's graduate program.
   4. If denied, an appeal may be made to the Graduate Program Committee for the student's graduate program.

   B. Graduate students holding admission with a doctoral objective in the Graduate College and
   for whom the doctoral 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 Department or Interdepartmental Area Committee.
   4. If denied, an appeal may be made to the Graduate Program Committee for the student's graduate program.
   5. If denied, an appeal may be made to the Graduate Program Committee for the student's graduate program.

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

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

E. 1. There is no absolute right of appeal to Committee III of the Executive Graduate Council. Committee III will accept appeals only in those cases where in the exercise of its sole discretion it shall find that one or more of the following grounds for appealing the appeal exist: a. That the campus Graduate Council has had some process of fair procedure (example: has failed to allow the parties concerned to present their cases fully to their campus Graduate Council before it reached its decision).

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

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

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

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

2. Appeals to Committee III of the Executive Graduate Council must be made in writing and must specifically outline the grounds for appeal. Such appeal must be made within 20 working days of the day the decision of the campus council is received (working days shall not include those days the University is not in session).

3. Committee III of the Executive Graduate Council must make a decision to hear the appeal or not to hear the appeal within 30 working days after receipt of the appeal. Acceptance or denial of jurisdiction over the appeal will be in writing.

4. The decision of the Committee on the merits of the case will be made and transmitted to the concerned parties within 40 working days after the decision to hear the appeal.

5. No person who was a member of the department or campus graduate council involved in the case will be eligible to participate in the decisions of Committee III of the Executive Graduate Council either to decide whether the case should be heard or to decide the merits of the case.

II. Appeal of grades in graduate-level courses

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

OMBUDSMAN OFFICE

The Ombudsman’s job is to assist you when you have a grievance or a problem with offices or individuals in the University. Advice on how to solve a problem, referrals to persons or offices that have the expertise you may need, and assistance on your behalf with the Ombudsman, are just some of the services the student service is confidential and free. If you have questions about University procedures, or don’t know where to turn when you are faced with unusual or problem situations, try the Ombudsman, Administration 217. A more detailed description of the Ombudsman is given in the Undergraduate Catalog.

STUDY LOAD

Full-time graduate students at the University of Nebraska are defined as graduate students enrolled for at least nine credit hours during an academic semester (quarter) or at least three hours during a five-week summer session, irrespective of whether or not the student holds graduate assistantships. Students carrying less than twelve hours may obtain a regular students 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 to fifteen hours for social work majors.

DROPPING AND AUDITING COURSES

A student may not drop a course after the date stated in the Academic Calendar and the Class Schedule. Examinations 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 advisor, must register for the course to audit, and must secure the approval of the instructor of the course whose prerequisite it will be to determine privileges including examinations connected with the course. An audit student may not change to credit registration after the first week of a course. (A credit student may change to audit registration during the first eleven weeks of a semester, or during the first half of a class if it runs longer or shorter than a semester.)

THE UNIVERSITY OF NEBRASKA AT OMAHA
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 advisor and the UNO Dean for Graduate Studies and Research and the proper signature on submitting the withdrawal form to the Registrar's Office. Any refund of fees will be based on the University catalog, Graduate Catalog, class schedule and Student Handbook, and as posted in the Cashier's Office. Failure to withdraw according to this procedure may cause forfeiture of refunds and inappropriate posting of grades.

TIME LIMIT FOR GRADUATE DEGREES

The last thirty-six hours of work are the Plan of Study for any graduate degree must be completed within six consecutive calendar years. The first day 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 Council for permission to take a special examination, or the current semester final examination in courses for which graduate credit has been awarded is an exception. A report of the results of the examination, which shall be prepared, given, and graded by the department, shall be filed in the Graduate Office. Under the grade of B or higher is obtained in the examination, the student shall be required to take additional work, the amount and nature of which will be determined by the major advisor and the Dean for Graduate Studies and Research. Time spent in the military service of the United States may be excepted in the application of this rule. All requirements for an Ed.D. degree, regardless of major, must be completed during a six-year period beginning with the date of entrance to the first course used in the plan of study following the completion of the Master's degree.

TUITION, FEES, DEPOSITS AND REFUNDS

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

Tuition and related fees are payable in full at the time of registration, or in accordance with deferred billing schedules. Students availing themselves of the deferred billing option must familiarize themselves with the due dates, as published. Note Failure to receive the mailed billing notice will not excuse the student from payment responsibility. No credit is allowed for the withdrawals in the book store, unless the student's account balance is negative. Students must familiarize themselves with the procedures for withdrawing from courses. The application for withdrawal must be made in the earliest possible time.

With the exception of the Bookstore, the University does not accept bank cards for payment of any financial obligations. 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 transcripts. Outstanding financial obligations from prior semesters must be paid prior to registration. Failure to do so may prohibit Registration for the current and future semesters.

Application Fee (Undergraduate)

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

Resident of Nebraska $10.00
Non-resident $25.00

Graduate Admission Fee (Graduate College)

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

Tuition

Per Semester Credit Hour

Resident of Nebraska (see residency status) $32.25
Undergraduate $16.50
Graduate $91.50
Non-Resident $87.25

Per Student Credit Hour through Off Campus Program $40.25

Audit Fee:

The Audit (not for credit) fee is set at one-half of the Resident tuition rate. Registration for audit requires the permission of the instructor and is subject to available class space after credit registration ends. Students who register to take a course for credit and who later change to audit registration will be required to pay the full resident or non-resident tuition rate.

Laboratory Fees:

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

Physics $5.00
Geography $5.00
Geology $5.00
Geology Field Trip $5.00
English Department Reading Laboratory $3.00
Communication, Photography $5.00
Biology $20.00
Pre-Health $10.00

Other laboratory fees may be charged as authorized by the University. Please refer to the semester class schedule to determine which of the above fees are related to specific courses.

Special Instructional Fees:

Applied Music Voice and all instruments. (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 $155.00
Two semester credit hours $375.00
Three semester credit hours $595.00
Four semester credit hours $115.00

Conference, non-credit, and off-campus contract course fees are determined for each offering based upon the cost factors and peculiar circumstances involved. Music and Non-Music Instrument Usage Fee $15.00

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

Full-time undergraduate or graduate (12 credit hours or more) per semester $43.00
Part-time students, undergraduate or graduate (less than 12 hours) per semester $25.00
This fee is assessed to every student each semester of which $7.50 of each of these fees is a designated fee for Campus Recreation.

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

The Fund-B of the UPFF is designed for services, staff salaries, maintenance of facilities and related expenses in the area of student program fee, student activity fee, and student program fee. These student fees are established 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 policies. Fund-B Student Fees are refundable upon request in accordance with guidelines and procedures established and published by the Vice Chancellor for Educational and Student Services. Students requesting and receiving a Fund-B refund will no longer be entitled to the student activities supported by Fund-B Student Fees.

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:

Transcripts of Academic Record — First Copy $3.00
Additional copies — Same order $1.00
Thesis Binding — per copy $3.00
Change of Program Fee (per each class changed) $5.00
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 $3.00
Dishonored checks given in payment for tuition and fees must be redeemed in cash prior to the date for late registration, otherwise the late registration fee will be assessed in addition to the returned check fee.

Teacher Placement Fees:

Registration and Credential Fee $38.00
New Registrants $38.00

Fee covers establishment of permanent placement file, 10 sets of credentials, and the weekly Vacancy Bulletin may be obtained in the Office.

Alumni Re-registrants $45.00

Update of placement credentials information, addition of new recommendations, 10 sets of credentials, and the Vacancy Bulletin if picked up in the Office.

Option Services

Vacancy Bulletin Mailing Fee 3rd class mailing $16.00
1st class mailing $17.00

Bulletin may be mailed to your home address. Bulletin is published bi-weekly from October
Period of Drop/Withdrawal

<table>
<thead>
<tr>
<th>Period</th>
<th>Percent Charged</th>
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</thead>
<tbody>
<tr>
<td>Before first official day of semester</td>
<td>100%</td>
</tr>
<tr>
<td>First week of classes</td>
<td>100%</td>
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<tr>
<td>Second week of classes</td>
<td>75%</td>
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<tr>
<td>Third week of classes</td>
<td>50%</td>
</tr>
<tr>
<td>Fourth week of classes</td>
<td>25%</td>
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<tr>
<td>Fifth week of classes</td>
<td>0%</td>
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<tr>
<td>Summer Sessions (5 and 6 Week)</td>
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<td>Before first official day of semester</td>
<td>100%</td>
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<td>25%</td>
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<tr>
<td>Fifth week of classes</td>
<td>0%</td>
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Refund Schedule:

Refunds are computed from the Record Entry Date. Refunds will be made by University Warrant. Students who receive financial assistance and withdraw during the refund period may have to repay all or a portion of their financial aid received. A financial and recipient should first contact the Office of Financial Aid prior to any official withdrawal from the institution.

Regular Semester

Refundable...

Through January; weekly from February through August.
Extra Credit Fee (over initial 10 sets)

<table>
<thead>
<tr>
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<tr>
<td>Late Fees and Penalties</td>
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</tr>
<tr>
<td>Late Registration (day or evening classes)</td>
<td>$10.00</td>
</tr>
<tr>
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<td></td>
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<tr>
<td>Key (per key with authorization/unrefundable)</td>
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<tr>
<td>ROTC Uniform Deposit — Refundable</td>
<td>$15.00</td>
</tr>
<tr>
<td>Locker and Towel Deposit — Refundable</td>
<td>$5.00</td>
</tr>
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| HPER Building locker, lock and key services available to students and Campus Recreation Activity Card holders (Faculty/Staff).
| To renew keys for the next semester or retrieve deposit and personal items, it is necessary to observe the following renewal and clearance dates: September 3, January 14, June 10. Required of students taking HPER service classes. Also required of Faculty, Staff and students using Field House Facilities. |
| Chemistry Laboratory Deposit — Refundable | $10.00 |
| Testing Fees      |          |
| ACT Assessment (ACT), National | $9.50 |
| ACT Assessment (ACT), Residual | $12.00 |
| Credit by Examination — College-Level Exam Program (CLEP) | $25.00 |
| Credit by Examination — per course (Departmental) | $35.00 |
| Correspondence Tests | $3.00 |
| General Educational Development (GED) | $10.00 |
| Graduate Management Admission Test (GMAT) | $27.00 |
| Graduate Record Examination (GRE) | $24.00 |
| Law School Admission Test (LSAT) | $38.00 |
| Miller Analogies Test (MAT) | $15.00 |
| Test of English As A Foreign Language (TOEFL) | $10.00 |
| English Diagnostic Test Fee | $3.00 |
| Mathematics Diagnostic Test Fee | $2.00 |

STUDENT DEVELOPMENT SERVICES

Career Development Center

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

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

The annual Summer Career Institute offers both credit and non-credit workshops to undergraduate and graduate students during the summer months as a means for introducing them to a career development process that will help them begin to define their career interest and planning.

Stop by and explore the Career Development Center in the East Wing of the Eppley Building.

Career Placement Services

Career Placement Services assists graduating seniors and alumni from all Colleges of the University in their search for career employment.

Placement counselors aid in assisting student career goals and related employment opportunities.

Similar to local and national employers, career fields, job descriptions, salary surveys, employment trends and job search techniques are also available.

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

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

Career Placement Services offers two basic programs:

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

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

Career Placement Services sponsors programs covering numerous career employment topics. Programs include group sessions, seminars or individual sessions. Job Readiness Workshops are offered each semester to help students develop interviewing skills and job search techniques. Career Placement Services offers two basic programs:

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Students are encouraged to visit Career Placement Services, Eppley Building, Room 111, Office Hours: 8:00 a.m. to 7:00 p.m. on Monday and Tuesday; 8:00 a.m. to 5:00 p.m. Wednesday through Friday. Phone 554-2333.

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 UNO Counseling Center personnel. Other testing programs include the following:

- Credit by Examination allows students the opportunity to gain academic credit for knowledge they have earned. The $25.00 testing fee for Departmental Exams will be applied to the tuition cost.
- Examinations for credit or placement may not be repeated. Credit by examination may not constitute any part of the terminal residency requirements (see residency requirements in this catalog).
- Credit earned by examination may not constitute any part of the terminal residency requirements (see residency requirements in this catalog).
- Credit earned by examination may not be granted as substitute credit for college courses which have been failed at University of Nebraska at Omaha or UNO's Special Examination Program which "CR" grade is acceptable (see fee schedule in this catalog). Credit earned by examination may not be granted as substitute credit for college courses which have been failed at University of Nebraska at Omaha or UNO's Special Examination Program which "CR" grade is acceptable (see fee schedule in this catalog). Credit earned by examination may not be granted as substitute credit for college courses which have been failed at University of Nebraska at Omaha or UNO's Special Examination Program which "CR" grade is acceptable (see fee schedule in this catalog).
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necessary. Preventive health measures are a primary concern and include blood pressure checks, vision and hearing tests, throat cultures for possible Strep infection, a Tuberculosis skin testing program, plus scheduled laboratory testing for selected topics.

Student Health Services is open Monday through Thursday from 8 a.m. to 7 p.m. and Friday from 8 a.m. to 3 p.m. A physician assistant is available to students for free consultation, diagnosis, treatment, and follow-up care Monday through Thursday from 9 a.m. to 9 p.m.

Application must be made through the Health Service for both temporary and permanent handicapped

Student Health Insurance. All UNO students carrying 6 or more hours have the option of contracting for accident and sickness insurance through a group plan made available by the University with a commercial insurance carrier at reduced premiums. If you are not protected under a policy held by your parents, or one that you have purchased privately, you are encouraged to purchase this insurance. Coverage is available from the Health Center. Coverage for injury and sickness not due to University negligence is the full

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.

Title IX of the Higher Education Amendments of 1972 is a federal law that prohibits discrimination in educational programs and activities. If there are issues pertaining to Title IX, contact the UNO Title IX coordinator, Dr. Richard E. Hoover, Vice Chancellor, Educational and Student Services, Room 211, Eppley Administration Building, 554-2779.

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 laboratory supervision. The assistant’s assignment is designed to provide an expanded opportunity for supervised educational experiences at the graduate level in conjunction with the degree program.

POLICY GOVERNING GRADUATE ASSISTANTSHIPS

I. Academic Standards

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

II. Recruitment and Selection of Graduate Assistants

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

III. Workload

The workload for a Graduate Assistant should average 20 hours per week for the duration of the appointment and shall be considered to be the equivalent of 33 FTE. The department in which the Graduate Assistant is employed should make arrangements with its assistants regarding vacation periods. The Graduate Faculty considers a student who is pursuing graduate study and holding a graduate assistantship to be carrying the equivalent of a full-time workload (see below) and, therefore, disapproves of the practice of holding additional jobs which may interfere with satisfactory performance of assigned duties.

IV. Coursework

Graduate Assistants are expected to carry a minimum of six graduate hours per semester. However, two five-week summer sessions shall be equivalent to one semester. Graduate Assistants may not register for more than 12 semester hours. The six hour minimum may be waived if the student is in the last semester of graduate work and needs fewer than six hours of graduate credit in order to complete requirements for graduation.

V. Duties

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

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

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VII. Justification of New Assistantships

In order to obtain permission to create new assistantships, whether funded by state appropriations or by outside grants, a department should submit a brief statement of justification for approval of the cognizant College Dean and the Dean for Graduate Studies and Research prior to being sent to the Vice Chancellor for Academic Affairs. The statement should contain: (1) qualifications necessary for the assistantship; (2) expected duties; (3) relevance of the duties to the student's graduate training; and (4) justification for the assistantship (as opposed to other job offers).

VIII. Deletion and Redistribution of Graduate Assistantships

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

A Graduate Assistantship entitles the holder to a waiver of tuition costs up to 12 hours of graduate credit per semester. Applications and their supporting credentials should be received on or before March 1. Address requests for information and application forms to the Chairperson of the Department in which the assistantship is desired.

TUITION WAIVERS FOR GRADUATE STUDENTS

Tuition waivers are 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-American States Universities Association along with Iowa State University, Kansas State University, University of Kansas, University of Oklahoma, University of Missouri-Columbia and the University of Missouri-St. Louis. Under the traveling scholar program, the Dean for Graduate Studies and Research may authorize travel of graduate students who are unable to use special research facilities or take courses not available at the University of Nebraska at Omaha and do so with a minimum of red tape. If the major professor and the host institution agree the graduate 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 Curators of the University of Missouri, graduate students meeting the regular in-state admissions 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.
CRITERIA

RESPONSIBILITIES
Graduate Faculty Fellows may teach graduate courses, supervise and serve on supervisory committees for students working towards post-baccalaureate degrees, participate in the recommendation of candidates for admission to graduate study, and vote on nominations for Graduate Faculty Fellows.

CIRTERIA

 workload of quality, or have demonstrated comparable, creative achievement.

1. The nominee must be a Graduate Faculty Member or meet all criteria for Graduate Faculty Membership.
2. The nominee must have published research and scholarly work of quality, or have demonstrated comparable, creative achievement.

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Plagiarism by Faculty

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

Plagiarism by Students

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 with the Director of Admissions, First Floor East, Eppley Building.
2. Contact an adviser 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 adviser 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 adviser for details.
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 final 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. It is the student’s responsibility to be sure that the pagination is correct in all copies of the thesis before depositing them in the Graduate College.
11. Make application for the conferral of the degree in the Registrar’s Office. The deadlines for filing are usually well before graduation, so be aware of these dates. 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. If you apply for graduation and do not complete all of the requirements for the degree in time to graduate, you must reapply for graduation the following semester. No additional fee is charged to reapply for your application.
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 with a major in biology the candidate must present 30 hours of graduate work in biology to include credit in a thesis (a maximum of 6 hours), a minimum of 2 hours in departmental seminar (801V), and at least 22 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 social, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business. The primary emphasis of the program is placed on decision making and problem solving.

Admission Standards:

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

Junior-Senior GPA x 200 + GMAT = 1070

The GMAT score must not be below 450 in computing the above total. There is no guarantee admission will be granted simply because the indicated points have been achieved.

Students are admitted on a provisional status until all foundation courses have been completed. GMAT scores must be received prior to the student's admission to the MBA program.

Degree Requirements

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

Economics

- BA 8181 or Macroe- and Microeconomics at the undergraduate level
- Accounting

- BBS11H or 1 year of Principles of Accounting at the undergraduate level
- Computers in Business

- DS 231
### DEGREE REQUIREMENTS

#### One of the following courses:
- BA 833V Business Conditions Analysis
  - Plus 9 hours from the following (no more than 6 hours of M-level courses may be included in the MBA program):
  - Econ 831V Economic Security
  - Econ 832M Energy Economics
  - Econ 833M Transportation Economics
  - Econ 834M Environmental Economics
  - Econ 840V Theory of Public Finance
  - Econ 841V Public Policy
  - Econ 842V Security Analysis
  - Econ 845V Seminar in Money and Banking
  - Econ 845V Seminar in International Economics
  - Econ 845V Seminar in Urban Economics

#### Option #2 — Management:
- BA 830V The Environment of Management
- BA 833V Seminar in Management
- BA 835V Personnel Administration

#### One of the following courses:
- BA 831V Business Information Systems
- BA 835V Business Conditions Analysis
- BA 840V Marketing Policies
- BA 843V Management Information Systems
- BA 845V Business Information Systems
- BA 855V Business Information Systems

#### Option #9 — Banking and Finance:
- BA 836V Financial Management

#### Plus 9 hours from the following:
- BA 815V Security Analysis
- BA 825M Seminar in Business Management
- BA 855V Seminar in Finance
- Econ 845V Seminar in Money and Banking
- Econ 853V Banking and Financial Markets
- Econ 855V Structure, Functions, and Policy

#### Option #9 — Industrial Psychology:
- BA 837V Business Administration
- Psych 862V Psychological Aspects of Industrial/Organizational Psychology
- Psych 961 Seminar in Industrial/Organizational Psychology

#### Option #9 — Industrial Psychology:
- Psych 862V Psychological Aspects of Industrial/Organizational Psychology
- Psych 961 Seminar in Industrial/Organizational Psychology

#### One of the following courses:
- Psych 811M Research Design
- Psych 814V Nonparametric Statistics
- Psych 915V Analysis of Variance
- Psych 951E Procedural Multiple Regression
- Psych 951F Procedural Multiple Regression

#### Option #9 — 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 10 hours must be at the "M" level of graduate work.

#### Student Responsibilities
- It is the responsibility of each student admitted to graduate studies to be familiar with the procedures and regulations of the Graduate Catalog. Each student should also consult with the Director of the MBA program at least once each semester to assure continued progress toward the degree objective. Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements. A maximum of 2 C's in graduate courses is permitted.

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

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### Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BA 800V</td>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BA 801V</td>
<td>Business and Society</td>
<td>3</td>
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<tr>
<td>BA 802V</td>
<td>Managerial Economics</td>
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<tr>
<td>BA 803V</td>
<td>Human Behavior in Organizations</td>
<td>3</td>
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<tr>
<td>BA 804V</td>
<td>Policy, Planning, and Strategy</td>
<td>3</td>
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### Option Courses

<table>
<thead>
<tr>
<th>Option #1 — Business Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 836V Environment of Management</td>
</tr>
<tr>
<td>BA 840V Marketing Policies</td>
</tr>
<tr>
<td>BA 855V Financial Management</td>
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<tr>
<td>BA 855V Business Conditions Analysis</td>
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<table>
<thead>
<tr>
<th>Option #2 — Marketing</th>
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<tbody>
<tr>
<td>BA 840V Research Policy</td>
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<tr>
<td>BA 841V Professional Policies</td>
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<tr>
<td>BA 845V Seminar in Marketing</td>
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<table>
<thead>
<tr>
<th>One of the following courses:</th>
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<tbody>
<tr>
<td>BA 802V Research Methods in Economics and Business</td>
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<tr>
<td>BA 803V Business Conditions Analysis</td>
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<tr>
<td>BA 804V Business Monitoring Systems</td>
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<table>
<thead>
<tr>
<th>Option #3 — Decision Sciences</th>
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<tbody>
<tr>
<td>BA 805V Resource Evaluation and Business Decision Making</td>
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<tr>
<td>BA 806V Business Information Systems</td>
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<tr>
<td>BA 807V Applied Quantitative Analysis</td>
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<td>BA 808V Business Forecasting</td>
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<th>Option #4 — Real Estate</th>
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<tr>
<td>BA 809V Real Estate and Land Use</td>
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<tr>
<td>BA 810V Real Estate and Land Use Economics</td>
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<tr>
<td>BA 811V Real Estate Law</td>
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<th>Option #5 — Accounting</th>
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<tbody>
<tr>
<td>BA 812V Accounting Theory (if not taken in a core course)</td>
</tr>
<tr>
<td>BA 813V Cost Accounting (if not taken in a core course)</td>
</tr>
<tr>
<td>BA 825V Seminar in Accounting (if not taken in a core course)</td>
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</tbody>
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### DEGREE REQUIREMENTS

#### One of the following courses:
- BA 833V Business Conditions Analysis
  - Plus 9 hours from the following (no more than 6 hours of M-level courses may be included in the MBA program):
  - Econ 831V Economic Security
  - Econ 832M Energy Economics
  - Econ 833M Transportation Economics
  - Econ 834M Environmental Economics
  - Econ 840V Theory of Public Finance
  - Econ 841V Public Policy
  - Econ 842V Security Analysis
  - Econ 845V Seminar in Money and Banking
  - Econ 845V Seminar in International Economics
  - Econ 845V Seminar in Urban Economics

#### Option #2 — Management:
- BA 830V The Environment of Management
- BA 833V Seminar in Management
- BA 835V Personnel Administration

#### One of the following courses:
- BA 831V Business Information Systems
- BA 835V Business Conditions Analysis
- BA 840V Marketing Policies
- BA 843V Management Information Systems
- BA 845V Business Information Systems
- BA 855V Business Information Systems

#### Option #9 — Banking and Finance:
- BA 836V Financial Management

#### Plus 9 hours from the following:
- BA 815V Security Analysis
- BA 825M Seminar in Business Management
- BA 855V Seminar in Finance
- Econ 845V Seminar in Money and Banking
- Econ 853V Banking and Financial Markets
- Econ 855V Structure, Functions, and Policy

#### Option #9 — Industrial Psychology:
- BA 837V Business Administration
- Psych 862V Psychological Aspects of Industrial/Organizational Psychology
- Psych 961 Seminar in Industrial/Organizational Psychology

#### Option #9 — Industrial Psychology:
- Psych 811M Research Design
- Psych 814V Nonparametric Statistics
- Psych 915V Analysis of Variance
- Psych 951E Procedural Multiple Regression
- Psych 951F Procedural Multiple Regression

#### Option #9 — 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 10 hours must be at the "M" level of graduate work.

#### Student Responsibilities
- It is the responsibility of each student admitted to graduate studies to be familiar with the procedures and regulations of the Graduate Catalog. Each student should also consult with the Director of the MBA program at least once each semester to assure continued progress toward the degree objective. Students must maintain a 3.0 (B) average to fulfill the program and graduation requirements. A maximum of 2 C's in graduate courses is permitted.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>BA 817V</td>
<td>Quantitative Analysis</td>
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<tr>
<td>BA 820V</td>
<td>Business and Society</td>
<td>3</td>
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<tr>
<td>BA 810V</td>
<td>Managerial Economics</td>
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</tr>
<tr>
<td>BA 830V</td>
<td>Human Behavior in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BA 880V</td>
<td>Policy, Planning, and Meetings</td>
<td>3</td>
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<tr>
<td>Option Courses</td>
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<tr>
<td>BA 839V</td>
<td>Business Administration</td>
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<tr>
<td>BA 840V</td>
<td>Marketing Policies</td>
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<td>BA 841V</td>
<td>Promotional Policies</td>
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<td>BA 847V</td>
<td>Seminar in Marketing</td>
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<tr>
<td>Option #1 — Business Administration</td>
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<tr>
<td>BA 839V</td>
<td>Environment of Management</td>
<td>3</td>
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<tr>
<td>BA 840V</td>
<td>Marketing Policies</td>
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<tr>
<td>BA 850V</td>
<td>Financial Management</td>
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<tr>
<td>BA 855V</td>
<td>Business Conditions Analysis</td>
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<tr>
<td>Option #2 — Marketing</td>
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<tr>
<td>BA 840V</td>
<td>Marketing Policies</td>
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<tr>
<td>BA 841V</td>
<td>Promotional Policies</td>
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<td>BA 847V</td>
<td>Seminar in Marketing</td>
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<tr>
<td>One of the following courses:</td>
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<tr>
<td>BA 802V</td>
<td>Research Methods in Economics and Business</td>
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<td>BA 809V</td>
<td>Business Conditions Analysis</td>
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<tr>
<td>Option #3 — Decision Sciences</td>
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<tr>
<td>BA 802V</td>
<td>&quot;Research Methods in Economics and Business&quot;</td>
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<td>BA 809V</td>
<td>Business Information Systems</td>
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<td>BA 804V</td>
<td>Applied Quantitative Analysis</td>
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<tr>
<td>One of the following courses:</td>
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<tr>
<td>BA 802V</td>
<td>Business Forecasting</td>
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</tr>
<tr>
<td>BA 809V</td>
<td>Business Forecasting</td>
<td>3</td>
</tr>
<tr>
<td>BA 804V</td>
<td>Applied Quantitative Analysis</td>
<td>3</td>
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<tr>
<td>BA 802V</td>
<td>Independent Research (in Decision Science)</td>
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<td>Option #4 — Real Estate</td>
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<tr>
<td>BA 860V</td>
<td>Real Estate and Land Use</td>
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<td>BA 861V</td>
<td>Current Problems in Real Estate and Land Use</td>
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<td>BA 889V</td>
<td>Real Estate and Land Use</td>
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<tr>
<td>Option #5 — Accounting</td>
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<tr>
<td>BA 820V</td>
<td>Financial Accounting</td>
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<tr>
<td>BA 821V</td>
<td>Bookkeeping (must be taken as a core course)</td>
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<tr>
<td>BA 822V</td>
<td>Seminar in Accounting (if not taken as a core course)</td>
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</tr>
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</table>

Total Hours: 36
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 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 texts as it deems necessary in order to determine whether an applicant is prepared for graduate study. After all reports are received by the Graduate College, UN-L, the chairperson of the committee will be asked to make a recommendation, after consultation with the students, on admission to the Graduate College.

Admission to Candidacy. The student must petition the Graduate Studies Committee or make application to the Graduate College. The petition will be approved by the Graduate Dean and the departmental Graduate Committee.

Options for the Masters Degree. Consult current Graduate Studies Bulletin, University of Nebraska-Lincoln.

Graduate Work. Graduate work in Civil Engineering is governed by the general requirements of the Graduate College. Selection of the option and program are subject to approval of the student’s advisor and the departmental Graduate Committee.

A student applying for admission should designate the primary area in which he/she wishes to study. Major work for the Master of Science degree may be selected from the areas of structural, hydraulic, transportation, and water resources engineering. A minor area may be designated from any one of the related Civil Engineering options or from other graduate departments. Other supporting courses will be selected from advanced or graduate courses having some relation to the major group.

COMMUNICATION

Master of Arts

In order to be admitted without deficiencies to graduate study in Communication, the applicant must present at least 15 undergraduate semester hours of appropriate courses in communication arts and sciences, including advanced (upper division) work in the area of graduate concentration. Applicants who have more than 9 semester hours of deficiencies will be advised to remove them before reapplying for any program.

All students who major in Communication are required to complete the 12 semester hours of core courses prescribed by the Graduate Committee. These core courses provide a basic, intensive and broad coverage of communication as a field of advanced study, including foundational principles of both verbal and nonverbal communication in conjunction with research and theory. Currently the core courses are Communication 301V, 417V, 587V, and a theory or research seminar, above the 800 level, which may be in the student’s area of concentration.

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

Thesis option:

Successful completion of 24 semester hours of course work, plus a thesis (6 credit hours) based on a proposal approved by the student’s committee. The completed thesis is defended orally before the committee, and the committee conducts an oral or written comprehensive examination covering the student’s field(s) of interest. (If the student elects a non-thesis option, the written comprehensive examination was taken previously and passed.)

Non-thesis option:

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

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.

Counseling and Guidance Programs

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

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

Required courses are determined in relation to the student’s previous coursework, experience and anticipated work setting. Most programs however would fit within one of the guidelines given below. Students are admitted and permitted to continue programs in Counseling and Guidance on the basis of their potential for successful training and professional practice.

In order to be admitted to Counseling and Guidance programs as a classified graduate student, the applicant must have completed the following: (1) a general survey course in the area of specialization in the program to which he/she desires to apply; (2) a course in research methods; (3) prior to taking the Counseling Practicum or Internship courses. Successful completion of a Counseling Practicum or Internship is a requirement for graduation.

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

The last date for completing all requirements for admission to the Department of Counseling and Guidance is April 15 for the Summer Session and Fall Semester, June 1 for the Spring Semester. Students are admitted to the programs in Counseling and Guidance twice each year. If students wish to begin the program at a different time from those indicated, they may discuss this with faculty in the department.

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

#### Master of Arts: Speech Pathology

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

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

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

3. Pass an examination to determine adequate personal voice and speech proficiency and adequate learning ability for speech (Administrated at the Speech and Hearing Clinic of the University).

4. Have successfully completed a minimum of thirty-nine semester hours of work preparatory to admittance to the major. Advance hours are to include the following courses or their equivalents:
   - SPED 400, Introduction to Communication Disorders
   - SPED 431, Speech Reading and Auditory Training
   - SPED 437, Hearing Disorders
   - SPED 438, Speech Science I: Speech Mechanisms
   - SPED 493, Hearing Science
   - SPED 442, Language Development in Children
   - SPED 443, Articulation Disorders
   - SPED 444, Rhythm and Synthesis
   - 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, adviser consultation should be sought early since additional coursework is required (this does not apply to those already holding state certificates in elementary or secondary teaching or a special services certificate in another field.)

6. Twenty-four semester hours of course work and practicum. These hours may be taken from the following:
   - Required Courses:
     - FED 801V, Introduction to Research
   - Elective Courses:
     - Students may choose any of the courses in the area numbered 850V or above, contingent upon adviser approval.

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

#### Master of Arts: Mental Retardation

The Master of Arts degree with a major in mental retardation is a program primarily designed for persons who wish to have specialization in a major that addresses the needs of individuals with mental retardation. It involves a concentrated course of study designed to improve and advance competencies in the area of mental retardation and to provide investigative approaches to problems associated with children who are mentally retarded. Requirements include:

1. 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. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the major adviser.
The Master of Science degree with a major in mental retardation provides broad study investigations of the causes and treatment of mental retardation and the development of special services available through this program. The following program requirements must be fulfilled:

I. 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. Applicants should hold a valid teaching certificate. Those not holding teaching certificates will be subject to a review of the applicant's transcript and his/her related experiences in teaching children. Applicants to the M.S. degree with a major in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the Major Adviser.

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

III. Elective Courses in Related Areas: Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, speech, English, Special Education and other related areas, subject to the advice and approval of the Major Adviser.

Master of Science: Teaching the Hearing Impared. The Master of Science degree with a major in teaching the hearing impaired is based on the standards for the certification of teachers of the hearing impaired as developed by the Committee on Professional Preparation and Certification adopted by the Council on the Education of the Deaf. Students who plan to enter this program must show evidence of holding a valid certificate in one of the following areas: elementary education, secondary education, K-12 special content area. A Nebraska pre-standard certification and a CED provisional certification will be recommended upon satisfactory completion of the program.

I. 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. The Miller Analogies Test score is required for initial entrance into the program. Students who wish to work toward special state certification in the schools adviser should consult with the Home School Counseling Office to determine the special services they should be taking at the University of Nebraska. The above requirements must be fulfilled.

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

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

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

I. 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.

II. 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.

III. Elective Courses in Related Areas: Depending upon the student's preparatory work, courses may be taken in fields such as psychology, sociology, speech, English, Special Education and other related areas, subject to the advice and approval of the Major Adviser.

Minimum of 38 hours required. Competency in simultaneous communication is required before the student teaching experience is initiated. Comprehensive examination or thesis option is required.
SPED 840M, Curriculum Planning for the Developmentally Disabled
SPED 840M, Methods of Instruction
SPED 872V, Basic Observation and Student Teaching
SPED 873V, Advanced Observation and Student Teaching
SPED 870V, Seminar in Special Education
One course surveying language development for other equivalent course
SPED 875M, Language Development of Exceptional Children
One course covering evaluation techniques (or other equivalent course)
SPED 895V, Diagnosis of Learning Disabilities
Psy 832V, Testing and Measurement
Psy 831M, Psychological and Educational Testing
SPED 885V, Diagnostic and Intervention Techniques

**II. Electives**

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Child Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>B. Learning Theory</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Course Requirements:**

1. **Step I** (12 hours) — This is an entrance level step which will prepare the student in the theoretical aspects of learning disabilities and remediation. It is also designed to give the student a foundational base for the major study approach to problem-solving in the classroom. Required: 9 hours

   - SPED 840M - Learning Disabilities (3)
   - SPED 880M - Social and Emotional Growth of Children and Youth (3)
   - SPED 801V - Introduction to Research (3)

   **Electives (3 hours)**

   - SPED 891U - Problems in Teaching Reading - Elementary (3)
   - SPED 892U - Problems in Teaching Reading - Secondary (3)
   - SPED 804V - Interdisciplinary Approaches to Developmental Disabilities (3)
   - SPED 872M - Childhood Language Disorders (3)
   - SPED 847V - Neuropsychology of Speech (3)
   - SPED 871V - Parent-Professional Relationships (3)
   - Psy 856V - Learning in Children (3)
   - Psy 857V - Learning in Adolescent Development (3)
   - Psy 859V - Social and Personality Development (3)
   - SPED 893M - Growth and Learning Problem of the Developmentally Disabled (3)
   - SPED 899V - Master's Thesis (3)

   **Comprehensive Evaluation**: At the end of Step I and prior to entering Step II, each student will be given a comprehensive evaluation of Step I. This evaluation will take the form of a written exam or a comprehensive evaluation of Step I experiences. This evaluation will take six (6) hours of SPED 899. Thesis three hours to be taken in Step I and three hours in Step II of the program. Other rules which the student must follow as a result of this examination: Teaching experience including diagnostic and intervention techniques related to children's learning disabilities. These positions are available only to local schools district job descriptions.

   **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 the applications are evaluated and processed at 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.
   3. **Teaching Experience**
      - Students must have completed a minimum of two years of successful teaching in an elementary, kindergarten, secondary, special education, or special services before final examination 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.
   4. **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

   **Course Requirements**:

   1. **Step I** (12 hours) — This is an entrance level step which will prepare the student in the theoretical aspects of learning disabilities and remediation. It is also designed to give the student a foundational base for the major study approach to problem-solving in the classroom. Required: 9 hours
   2. **Step II** (18 hours) — Upon successful completion of Step I, students will enter Step II which is the candidacy level. Step II combines both theory and practice in preparing the student in the theoretical and practical aspects of the application of intervention techniques relative to children's learning disabilities. During this step, students must submit to the Graduate College a completed problem paper. 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 may 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 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 871V-Advanced Observation and Student Teaching in Special Education (3)
- SPED 872V-Basic Observation and Student Teaching in Special Education (3)

**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
   - e. SPED 480/880M or equivalent
   - f. SPED 481/881M or equivalent

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. The student must have completed the following courses:
   - a. Sociology
   - b. Psychology of Exceptional Children
   - c. Psychology of Exceptional Children (particular)
   - d. Child Development
   - e. Curriculum Development
   - f. Special Education
   - g. Reading
   - h. Math
   - i. Science
   - j. Music
   - k. Art

7. The student must have completed the following courses 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. Students electing the Master of Science in Teaching the Emotionally Disturbed thesis option will take six (6) hours of SPED 899V, Thesis; three hours to be taken in Step I and three hours in Step II of the program.

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

   **Step I — 12 hours**

   - Required
     - FED 801V, Introduction to Research — 3 hours
     - SPED 882V, Educ. Strategies for Edu Child and Adolescents — 3 hours
     - SPED 840M, Learning Disabilities — 3 hours
     - Electives
     - SPED 860V, Interdisciplinary Approaches to Developmental Disabilities — 3 hours
     - PSY 846M, 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
     - SPED 899, Master’s Thesis — 3 hours

   **Comprehensive Examination**

4. **Step II — 12 hours**

   - Required
     - FED 801V, Introduction to Research — 3 hours
     - SPED 882V, Educ. Strategies for Edu Child and Adolescents — 3 hours
     - SPED 840M, Learning Disabilities — 3 hours
     - Electives
     - SPED 895V, Diagnosis of Learning Disabilities — 3 hours
     - SPED 883V, Practicum in Teaching Emotionally Disturbed — 3 hours
     - SPED 875M, Childhood Language Disorders — 3 hours
     - Comprehensive Examination

5. **Step III — 12 hours**

   - Required
     - SPED 870V, Seminar in Special Education — 3 hours
     - SPED 871V, Advanced Observation and Student Teaching in Special Education — 3 hours
     - SPED 872V, Basic Observation and Student Teaching in Special Education — 3 hours
     - Electives
     - SPED 896V, Advanced Diagnosis of Learning Disabilities — 3 hours
     - SPED 813V, Diagnosis and Remedial Instruction in Reading — 3 hours
     - PSY 821M, Psychological and Education Testing — 3 hours
     - PSY 863M, Techniques of Programmed Instruction — 3 hours
     - PSY 855M, Learning in Children — 3 hours
     - PSY 857V, Behavior Modification — 3 hours
     - SPED 899, Master’s Thesis — 3 hours

   **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 program offers the student a choice of either the standard Master of Science curriculum or a Master of Science with an option in Public Administration. The Public Administration option is especially recommended for administrators or future administrators within the Criminal Justice System.

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

Required Core Courses

- 801V, Criminal Justice Planning and Innovation
- 802V, Seminar in Administration of Justice
- 812V, Criminal Justice Research Theory and Methodology
- 804V, Seminar in Community Services and Treatment
- 807V, Theoretical Criminology
- 809V, Seminar in the Processes of the Criminal Justice System
- 811V, Special Problems in Criminal Justice
- 814V, Independent Study

Elective Courses

The student selects four (4) courses with advisor's approval.

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

Required Criminal Justice Core Courses

- 801V, Seminar in Criminal Justice Planning and Innovation
- 802V, Seminar in Administration of Justice
- 812V, Criminal Justice Research Theory and Methodology

Required Public Administration Core Courses

- 840M, Public Budgeting
- 846V, Seminar in Public Financial Management

Elective Criminal Justice Courses

The student selects four (4) courses with advisor's approval.

Elective Public Administration Courses

In consultation with an advisor the student selects one (1) course from the Public Administration elective.

Satisfactory completion of the comprehensive examination is also required.

Master of Science

Public Administration Option

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

 Required Core Courses

- 801V, Criminal Justice Planning and Innovation
- 802V, Seminar in Administration of Justice
- 812V, Criminal Justice Research Theory and Methodology

Required Public Administration Core Courses

- 840M, Public Budgeting
- 846V, Seminar in Public Financial Management

Elective Criminal Justice Courses

The student selects four (4) courses with advisor's approval.

Elective Public Administration Courses

In consultation with an advisor the student selects one (1) course from the Public Administration elective.

Satisfactory completion of the comprehensive examination is also required.

Dramatic Arts

Master of Arts

An applicant for graduate study in Dramatic Arts must present a minimum of 18 graduate 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 ensure that students are familiar with the field as a whole and prepared to demonstrate their mastery in a written comprehensive examination at the conclusion (oral) 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 before the committee.

Option II: Successful completion of 33 semester hours of course work including at least 12 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 elected). No thesis is required for the M.S. degree. All courses are 3 credits. Total hours required: 36.

Each student must complete the core requirements.

Core (15 hours)

- ECON 820V, Microeconomic Theory
- ECON 822V, Macroeconomic Theory
- ECON 830M, Quantitative Applications in Economics and Business*
- ECON 828V, Research Methods
- ECON 830V, Econometrics

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

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

Suggested Specializations

I. Economic Theory

- ECON 824M, Evolution of Economic Thought
- ECON 825M, Advanced Macroeconomics
- ECON 845M, Monetary Theory and Policy
- ECON 865V, Seminar in International Economics

Electives

II. Energy and Regulatory Economics (select 1 course)

- ECON 821M, Competition and Monopoly in American Industry
- ECON 831M, Public Utility Economics
- ECON 832M, Energy Economics
- ECON 841M, Transportation Economics

Electives

III. Monetary and Financial Economics (select 4 courses)

- ECON 801V, Public Finance
- ECON 845M, Monetary Theory and Policy
- ECON 846V, Seminar in Money and Banking
- ECON 847M, Banking and Financial Markets
- ECON 856M, State and Local Finance

Electives

I. International Economics

- ECON 846V, Seminar in International Economics
- ECON 847M, International Economic Development

Electives

V. Urban/Regional Economics (select 4 courses - 12 hours, 6 of which must be in Economics)

- ECON 845M, Seminar in Urban Economics
- ECON 847V, Seminar in Regional Economics
- ECON 859M, Research in Urban/Regional Economics
- GEO 812M, Urban Geography
- HIST 824M, American Urban History to 1870
- HIST 844M, American Urban History since 1870
- SOC 841M, Urban Sociology

Electives

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

Master of Arts

The M.A. program consists of core requirements (12 hours), an elected specialization (9 or 12 hours), electives (including 6 hours of thesis). Total hours required: 30.
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Core (12 hours)

ECON 829V, Microeconomic Theory
ECON 832V, Macroeconomic Theory
ECON 835M, Quantitative Applications in Economics and Business*
ECON 839V, Research Methods

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

Suggested Specializations

I. Educational Administration and Supervision

- Real Estate and Land Use Economics ........................................... 15 hours
- BA 860V, Real Estate and Land Use Economic Theory
- BA 861V, Current Problems in Real Estate
- BA 899V, Thesis** ............................................................... 6 hours

II. Supervision

- Electives .................................................................................. 3 hours

Programs in Educational Administration-Supervision

Master of Science

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

As 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 a total of not 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

As an applicant for admission to the Specialist in Education degree (with endorsement) in the Department of Educational Administration 7? Supervision and Foundations must hold a Master's degree from an accredited institution, and present evidence of having had appropriate administrative experience.

As an applicant for admission to the Specialist in Education degree (without endorsement) in the Department of Educational Administration 7? Supervision and Foundations must hold a Master's degree from an accredited institution.

These programs of study are designed to best emphasize the student's needs and ambitions. Articulated with the Master's Degree, the total program must accumulate to not less than a 36 hour core.

The program is carried out under the direction of the faculty 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 interdisciplinary course offerings in this program provide varied, challenging, and relevant experiences for both classroom teachers and community workers in allied professional fields. Students in this thirty-six hour program will increase their competence and expertise in functioning not only in the educational setting of the urban classroom, but also within the wider community milieu.

It is expected that students will be able to critically analyze the logic and structure of the educational institution, and the inter-relationship of education and other primary socializing agencies.

Many of the courses offered in the program are designed specifically to facilitate an analysis of the ethnic, racial, and social characteristics of the contemporary urban scene. It is also expected that students will develop an awareness of and the ability to handle the learning problems of urban youth. The program emphasizes a cultural awareness and appreciation of the varied life-styles within the urban setting, and specific skills to function effectively as an educator. In addition, attention will be focused on a critique of existing programs and the development of new strategies for change and the improvement of education.

EDUCATIONAL ADMINISTRATION-SUPERVISION AND FOUNDATIONS

Program in Educational Administration-Supervision

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 interdisciplinary course offerings in this program provide varied, challenging, and relevant experiences for both classroom teachers and community workers in allied professional fields. Students in this thirty-six hour program will increase their competence and expertise in functioning not only in the educational setting of the urban classroom, but also within the wider community milieu.

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DEGREE REQUIREMENTS 49

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 studies and a transcript of all previous college work.

Program

Required Courses:

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

Select six of the following courses:

FED 802V, History and Philosophy of Education .................................. 3
FED 805V, Education and Society .................................................. 3
FED 807V, Alternative Strategies in Urban Education ......................... 3
FED 809V, Urban School .............................................................. 3
FED 811V, Conflict and Controversy in Education ............................. 3
FED 813V, Field Research Techniques in Urban Education ................. 3
FED 898M, Growth and Learning Problems of the Disadvantaged ........ 3

Electives to be determined by the student and his/her advisor:

The program shall be flexible enough to allow

for individualized programs of study and experience

which are most appropriate for the preparation of
each candidate and for the level at which the candidate

is preparing to work ................................................................. 15

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 801V (Introduction to Literary Research) within the first nine hours of graduate study, to complete one of the following plans of study:

Plan A: Successful completion of 24 credit hours in course work, including at least 12 hours in 800V- or 900-level courses; plus a thesis (6 credit hours) on an approved topic accepted after oral defense before a faculty committee; plus a written examination prepared and judged by a faculty committee.

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

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


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

1. Satisfactory completion of the following four courses:
   a. Eng. 858M, Introduction to Linguistics
   b. Eng. 879M, Introduction to Literature
   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, demonstrate oral and written proficiency in a second language as certified by the Department of Foreign Languages.

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

The Certificate in Course Teaching English as a Second Language is offered by the Department of English. The Certificate in Course Teaching English as a Second Language is intended for those who want certification to teach in the public schools of Nebraska or any other state. It is an academic credential only. Students who want certification to teach in the public schools must follow the procedures and courses of study prescribed by the College of Education. The requirements for certification to teach English as a Second Language in public schools vary widely from state to state.

GEOGRAPHY

Master of Arts

The Master of Arts Degree offered by the Department of Geography: 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 approved General Social Science work.

Two courses are required: Geography Concepts: History and Philosophy (801V) and Geography Concepts: Quantitative Methods (802V). In addition, all candidates are required to complete a General Social Science Seminar.

The remainder of the program consists of courses scheduled by the student with the advice of the Graduate
Admission Requirements

In addition to the requirements of the Graduate College, an applicant for admission to the Master of Arts degree program in geography must present as a prerequisite a minimum of 15 undergraduate semester hours of geography including physical and human geography and cartography. The applicant must have a GPA in geography of at least 3.0 on a 4.0 scale.

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 requirements for the Specialization. The Specialization may serve as an academic minor for students majoring in many of the social and behavioral sciences at the graduate level.

Requirements

1. Students wishing to work toward the Certificate in Gerontology must make application and be accepted into the Gerontology Program. Those working toward a graduate degree must also be accepted into the degree program of their major department.

2. Coursework requirements consist of a minimum of 15 semester hours in Gerontology. The only required course is GERO 811M-Practicum and is required of all students at the graduate level.

3. A one semester full-time practicum or its equivalent is also required. The goal of this is to give each student practical one-on-one experience with the aged in a service program or agency delivering services to the elderly. Practicum students must register for GERO 894M-Practicum and participate in periodic seminars with the Practicum Supervisor of the Gerontology Program.

Example of a Program of study

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

GERO 811M-Practicum (6 semester hours) - required of all students at the graduate level.
GERO 810M—Applied Social Gerontology (3 semester hours)
GERO 846M—Aging and Human Behavior (3 semester hours)
GERO 867M—Programs and Services for the Aging (3 semester hours)
GERO 894M—Practicum (6 semester hours)

HEALTH, PHYSICAL EDUCATION, AND RECREATION

The School of Health, Physical Education, and Recreation offers graduate courses in the areas of health education, physical education and recreation/leisure studies. The Master of Arts and the Master of Science degrees are offered with a major in Physical Education.

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. The Master of Arts and the Master of Science degrees are offered with a major in Physical Education.

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. A minimum of six hours outside the School of HPER are required.

Master of Arts

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-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

Master of Arts

Admission to M.A. Program

1. To be admitted unconditionally a student must present 21 (twenty-one) hours of undergraduate preparation in History with at least a 3.00 average in those hours. Further, to be admitted unconditionally, the student must have achieved a grade average of 2.75 in his overall undergraduate preparation. The student must follow all other admission requirements for Graduate Study.

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 Historial Research (Hist 493) or its equivalent, must take Hist 493 on a non-graduate credit basis.

4. As stipulated by the Graduate College, students must take the general aptitude test of the Graduate Record Exam during the first semester of enrollment.

M.A. Program with Thesis (Option I)

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

A. 24 semester hours of approved graduate courses in History, 9 of which must be in courses open only for graduate registration, i.e., seminars. The other 15 hours may be either lecture courses or courses numbered 801V and no more than 6 hours of credit may be taken by a student under this number. A balance of 12 and 9 must be maintained between major and minor areas of study. Seminar study should be divided two and one, depending upon the student's area of concentration.

B. 15 semester hours of approved graduate courses in History including 9 hours of seminars, plus 9 approved courses in a related field. The course work in a related field, 9 hours constituting a graduate minor. The minor department must be consulted to determine the student's eligibility to do graduate work in that department.

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

M.A. Program without Thesis (Option II)

1. Under this plan the student may earn a Master of Arts degree by completing successfully thirty-six hours of course work, at least half of which must be earned in courses open only to graduate students (V series). No more than nine (9) hours of credit may be taken by a student under courses numbered 801V.

2. In addition to showing breadth competency in history the candidate must give proof of research ability and proficiency in writing. This normally will be done in research seminars and independent research projects.

3. While there is no requirement for a minor in some field other than history, the student may elect to take a minor in some other field, such minor to consist of no less than six graduate hours and no more than nine graduate hours. Permission to take a six hour minor may be gained by the advisor's permission, the approval of the Graduate Program Committee.

4. Whether or not the student elects a minor in an outside field, he/she must maintain a reasonable balance between history and outside fields.

5. When the student initially enrolls, he/she shall, in consultation with the chairperson of the Graduate Program Committee of the Department of History, choose an advisor. The chairperson of the History Graduate Program Committee shall, after consultation with the student and his advisor, recommend an advisory committee to the Dean for Graduate Studies and Research for official approval. The advisory committee shall be composed of members of the Faculty appropriate to the student's program and academic interests. The chairperson of the advisory committee (and the representative of the minor field, if such field is selected) must be members of the Graduate Faculty.

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

1. Early in the semester the candidate expects to take the degree, he/she must make arrangements with his/her sponsor to take the comprehensive written examination. The examination will be given...
selected the required minor must be completed in a department other than those in the College of Home Economics, Food Science and Human Nutrition, 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 Science Management, Department of Human Development and the Family and the Department of Textiles, Clothing and Design.

Human Nutrition and Food Service Management — Candidates for the Master of Science degree in Human Nutrition and Food Service Management must hold a Bachelor of Science degree or a Bachelor of Arts degree from an accredited college and have completed undergraduate preparation the equivalent of the first 24 hours in the Basic General Education Core in Human Nutrition and Food Service Management plus at least 48 hours exclusive of freshmen courses in Biochemistry, in Microbiology, and in Physiology for a total of at least 18 hours in Human Nutrition and Food Service Management, Chemistry and Biological Sciences.

Human Development and the Family — Candidates for the Master of Science degree in Human Development and the Family must hold a Bachelor of Science or a Bachelor of Arts degree from an accredited college and have completed undergraduate preparation the equivalent of the first 24 hours in the Basic General Education Core in Human Economics plus a major of at least 18 hours of exclusive of freshmen courses in Human Development and the Family or the equivalent from Psychology, Educational Psychology or Sociology.

Textiles, Clothing and Design — Students may qualify for study in this area by presenting a baccalaureate degree from an accredited institution and by completing a minimum of 12 hours of undergraduate course work beyond the freshman level in Textiles, Clothing and Design or equivalent from a regionally accredited college or institution. The graduate Area Committee will consider the qualifications of the candidate for admission of applicants for study in Textiles, Clothing and Design and leading to a Master of Science or Master of Arts degree, and will make recommendations to the Graduate College. Deficiencies as assessed on an individual basis may be removed concurrently with graduate studies.

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

MATHMATICS

Admission Requirements: Admission to a degree program is based on evidence of mathematical ability. As applicant is usually expected to have completed fifteen acceptable credits in undergraduate mathematics beyond calculus, and to have an overall average of B or better for the last two undergraduate years. In some cases where the above criteria 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 820M or above and not less than 12 credit hours which carry a number of 820M or above.

c. Include mathematics courses 823M-824M, 827M and one of the following sequences: 811M-812M, 822M-823M, 830M-831M, 853M-854M.

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

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

1. Earn a total of 36 credits, of which 24 must be in mathematics.
2. Include in his program mathematics courses 801T, 802T, 803T, 804T, 823J-870J, and at least one math course at the 800T level or above (Courses 823J-870J may be waived if the equivalent undergraduate courses have been taken).
3. Include in his program secondary education courses 850V, 853V, and at least one additional secondary education course selected from 823V, 830V, 839M, 846V, or 936V.
4. As listed under the Master of Science above.
5. As listed under the Master of Science above.

The student must earn a grade of at least B in the four required pre-sequentials. If either a C is earned, or an unexcused withdrawal (W) is recorded in a pre-sequellar course or its prerequisite, the student must be taken off this graduate program immediately. A student is admitted if his or her composite score of 600 on it is required for passing the comprehensive examination and may be achieved at any time prior to the student's admission to the program. This advanced non-thesis program is specifically designed to enhance career goals for those who expect to pursue a doctoral degree. The student must choose one course from each of the following four groups. These courses must be completed within the first 16 hours of graduate work.

I. A. Psychology 854 (Proseminar in Research Methods)
   B. Psychology 956 (Proseminar in Development)
II. A. Psychology 921 (Proseminar in Perception)
   B. Psychology 923 (Proseminar in Physiological Psychology)
III. A. Psychology 910 (Proseminar in Analysis of Variance)
   B. Psychology 925 (Proseminar in Factor Analysis)
IV. A. Psychology 934 (Proseminar in Personality)
   B. Psychology 944 (Proseminar in Social Psychology)

The requirements for this degree are the same as for those leading to certification as a School Psychologist with one addition. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.

Doctor of Philosophy

Through a cooperative program with the University of Nebraska-Lincoln, programs are offered in Omaha leading to the Ph.D. in industrial/organizational, experimental child, and developmental psychology. Students may be considered for admission to a doctoral program if they have completed or are doing excellent work toward their Masters degree which includes a demonstration of research skills preferably in the form of a defended thesis. There is no generally specified language requirement, but each student is expected to demonstrate facility in languages, research skills, or knowledge of a research area appropriate for the student's research interests as determined by the Supervisory Committee.

Organizational Psychology

Doctoral students in this program are required to complete the entire pre-sequellar series of eight courses as outlined above or their equivalent. If the student has completed graduate coursework at another school, he/she must be recommended from applying. Students must be recommended from applying. Students must be recommended for the doctoral program if they have completed or are taking a doctoral program. This will ordinaril include up to 3 years of practicum credit. Final determination of the student's plan of study always resides with the adviser 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.

Specialist in Education

The E.D. degree requires completion of 60 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. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology.
Professional Programs in the Area of School Psychology

Application

A request for admissions to the programs in school psychology must be filed with the School Psychology Committee of the Psychology Department. The application should include official transcripts of all previous college work, scores for the Graduate Record Examination Aptitude Test, a vita, and three letters of recommendation. Students who have not been admitted to Graduate Study 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. This second period is completed by November 1 for the following Spring. Before a final decision is made concerning admission the applicant must be interviewed by at least two members of the School Psychology Committee.

Certification

Students may take work leading to a recommendation for certification as a school psychologist. A minimum of thirty-six semester hours of work beyond the Bachelor degree is required for the recommendation. Filing of an acceptable program shall be required by the School Psychology Department. Students should contact the School Psychology Committee when starting their studies in order to facilitate individual program planning. The student’s advisor should be a member of the School Psychology Committee. The Ed.S. degree in school psychology requires completion of 66 graduate hours including those taken for the Masters degree. The requirements for this degree are the same as for those leading to certification as a school psychologist with one addition. The degree candidate must write and defend a thesis which deals with research or supervised experience in the area of school psychology. The student must consult with the School Psychology Committee before starting the special project.

DEGREE REQUIREMENTS

1. Required Courses in Psychological Methods

Psychology 831M (or 431) Psychological and Educational Testing
Psychology 800V The Profession of Psychology
Psychology 853V Individual Tests I
Psychology 854V Individual Tests II
Psychology 851V Advanced Educational Psychology
Psychology 958 Personality Assessment

2. Required Professional Education Courses

COUN 824V Counseling Practices

3. Required Supporting Work

EDAD 835V Introduction to Educational Administration and Supervision

4. Practicum in School Psychology (Psychology 997)

The student’s program must include from 4 to 6 credit hours of practicum. The general rule is that 50 clock hours are required for each hour of credit. The usual practice is for a 3-hour practicum emphasizing behavioral intervention in a school setting. The final grade for the practicum will be based on the total number of credits earned in a school setting. Each practicum is developed to meet individual student’s needs and must be approved by the School Psychology Committee before the student is allowed to enroll.

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 experience. The intern must have an endorsement as a psychological assistant. The internship is usually completed in one of the Omaha-area schools but other sites are possible. The exact details of the internship are worked out by negotiations involving the student, his advisor, and a representative of the school system involved. Results of these negotiations must be approved by the School Psychology Committee. The student may sign up for 3 credit hours for each semester of internship completed.

Pyschological Assistant

Students who are pursuing work toward certification in Nebraska as Psychological Assistant must simultaneously complete requirements for the M.A. or M.S. Those seeking such certificate are encouraged to apply to the Psychology Department at the same time they make application for degree candidacy in order to ensure that required courses are included in the plan of study for the degree. In many cases, students must have been accepted in this program before enrolling in Psychology 835V or 843V. Application should be made to the Psychology Department and three letters of recommendation are required. The student must have an endorsement as a psychological assistant and be accepted in the program. The student must also have course work in both learning and developmental psychology. Recommended courses are Psychology 831M (or 431), Psychology 800V, Psychology 853V, and Psychology 854V.

Upon completion of the approved program of study the student requests review for the School Psychology Committee’s recommendation. The student is required to have completed the program satisfactorily (B or better) and maintained the professional standards of school psychology. The student in training is expected to behave in accordance with the ethical guidelines of the American Psychological Association and the National Association of School Psychologists.
PUBLIC ADMINISTRATION

Master of Public Administration

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

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

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

For students to be admitted unconditionally to the M.P.A. program they must have completed at least 50 percent of the required courses. Both the major and minor advisers should be provided for the major adviser, the minor adviser, and the student.

Courses Required of all Options

- P.A. 800V, Seminar in Research Methods in Political Science and Public Administration
- P.A. 842V, Seminar in the Social Sciences
- P.A. 844V, Seminar in Organization Development in Public Agencies
- P.A. 845V, Seminar in Advanced Management Analysis in Public Agencies
- P.A. 848V, Seminar in Public Financial Administration
- P.A. 803U, 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.A. 804M, The Legislative Process
- P.A. 805M, The Judicial Process
- P.A. 843M, Municipal Administration
- P.A. 810V, Seminar in Public Administration
- Econ 856M, State and Local Finance
- P.S. 815V, Seminar in Public Law
- P.A. 830V, Seminar in Public Policy
- P.A. 846V, Seminar in Public Personnel Management
- P.A. 860V, Seminar in Administrative Law
- P.A. 881V, Urban Seminar in Metropolitan Planning and Development
- Econ 891V, Seminar in Regional Economics
- P.A. 892V, Readings in Public Administration
- P.A. 894MV, Readings in Public Administration

Degree Requirements

Thirty-nine hours consisting of thirty hours of course work plus 3 hours of internship in a public agency for 4 months. In the event the governmental agency or jurisdiction sponsoring the internship cannot provide compensation, the student intern should be prepared to sustain the expenses of the internship. The internship may be waived for prior service in a public or semi-public agency. Requests to waive the internship shall be submitted to the departmental graduate committee upon application for candidacy. In lieu of the internship requirement, if waived, the student must take six additional hours of approved course work. Eighteen hours of the course work must be at the 800 level and a comprehensive written final examination is required.

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 to candidacy. The qualifications are: (1) the scores on the Graduate Record Examination must be on file in the Graduate Office; (2) nine hours of course work must be 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.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved.

Application forms should be filled out by the student——in consultation with the major and minor advisers——as soon as the student can qualify for admission to candidacy. 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 major 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 441/481M
- P.A. 846V, Seminar in Research Methods in Political Science and Public Administration
- P.A. 842V, Seminar in 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. 848V, Seminar in Public Financial Administration
- P.A. 803U, Internship

Public Administration 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.)

- P.A. 804M, The Legislative Process
- P.A. 805M, The Judicial Process
- P.A. 843M, Municipal Administration
- P.A. 810V, Seminar in Public Administration
- Econ 856M, State and Local Finance
- P.S. 815V, Seminar in Public Law
- P.A. 830V, Seminar in Public Policy
- P.A. 846V, Seminar in Public Personnel Management
- P.A. 860V, Seminar in Administrative Law
- P.A. 881V, Urban Seminar in Metropolitan Planning and Development
- Econ 891V, Seminar in Regional Economics
- P.A. 892V, Readings in Public Administration
- P.A. 894MV, Readings in Public Administration

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

- CRP 821, Planning and Planning in the U.S.
- 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 Urban Economics
- P.A. 892V, Readings in Public Administration
- P.A. 894V, Research in Public Administration

The following list selected in consultation with Adviser.

- CRP 811, Planning and Planning in the U.S.
- 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 Urban Economics
- P.A. 892V, Readings in Public Administration
- P.A. 894V, Research in Public Administration

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

- CE 468, Traffic Engineering
- CE 468A, Transportation Geometrics
- CE 485, Urban Transportation Planning
- CE 486, Transportation Planning and Economics
Sanitary
CE 800, Environmental Quality and Control - Land, Air, and Water
CE 820, Environmental Pollution Control
Water Resources
CE 914, Water Resources Planning
CE 916, Case Studies in Water Resources
Design and Construction
CE 469, Pavement Analysis and Design
CE 842, Construction Management

Social Work or Social Welfare Option (15 hours from the following selected list in consultation with advisor.)

SW 800V, Human Behavior and the Social Environment
SW 825V, Social Welfare Policy and Services
SW 850V, Task Groups inMacro Practice
SW 852V, Social Work Administration
SW 854V, Social Welfare Planning
SW 855V, Supervision in Social Work
SW 856V, Advanced Policy Analysis and Implementation
SW 860M, Social Work Practice in Mental Health
SW 862M, Social Work Practice in Child Welfare
SW 870V, Alcohol Abuse: Comprehensive Treatment Program
SW 890V, Special Studies in Social Welfare

The Environmental Option (15 hours to include at least one of the courses listed below, the remaining part of the program to be custom-tailored designed for the student at the discretion of the Graduate Program Committee of the Biology Department. Students selecting this option must be approved for entrance into the graduate program by both the Department of Public Administration and the Department of Biology.

Biology 819V, Communities and Ecosystems
Biology 883V, Environmental Physiology
Biology 830V, Plant Ecology

The Law Enforcement Option (15 hours to include CJ 801V, Seminar in Criminal Justice Planning and Innovation; CJ 802V, Seminar in the Administration of Justice; CJ 814V, Criminal Justice Research Theory and Methodology, plus six hours from the following list selected in consultation with Adviser.)

CJ 803V, Comparative Law Enforcement Systems
CJ 804V, Seminar in Community Services and Treatment
CJ 805V, Seminar in Criminal Jurisprudence
CJ 807V, Theoretical Criminology
CJ 808V, Seminar in the Processes of the Criminal Justice System
CJ 809V, Seminar in Delinquency Prevention, Control and Correction
CJ 811V, Special Problems in Criminal Justice
CJ 814V, Independent Study

SOCIAL WORK

The Profession of Social Work
Social work is one of the "helping professions" concerned with the quality of human life. Specifically, the social workers are concerned with people's ability to function meaningfully and effectively in their environment. (i.e., family, friends, associates, and the community at large). Social workers bring systematized knowledge to bear on their dealings with people individually, in families, in other groups and groups, and with 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 and efficient work, in social work to "provide for the general welfare" as well as to help the people, families, groups, and institutions within the society toward self fulfillment.

Requirements for the Degree of Master of Social Work

1. A minimum of one year in residence.
2. There are two programs leading to the Master of Social Work degree. The Advanced Standing Program, for students with an approved Bachelor's degree in social work, requires 42 credit hours of graduate study in social work, which may be completed in a minimum of two semesters and a full summer. The Two Year Program for students with a Bachelor's degree not in social work, requires the same 42 credit hours plus up to 20 graduate credit hours of social work foundation courses. Specific foundation course requirements are determined on the basis of each student's previous coursework and/or tested knowledge.
3. Details about research, practicum, and other course requirements may be obtained from the School of Social Work.

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

NOTE: Social Work students may transfer up to twelve semester credits from another university toward the 42-credit M.S.W. program; each course must be approved by the Dean for Graduate Studies and Research as being an appropriate substitute for a requirement or elective.

SOCIOLOGY

Applicants for admission to the graduate program in sociology should present a minimum of 25 undergraduate semester hours in sociology including courses in statistics and research methods. Those students lacking either will be required to make up the deficiency during their first year of graduate study. Examinations: Both the M.A. and M.S. (see below) degree programs in sociology require the incoming student to complete an examination covering basic concepts and theories of sociology as being an appropriate substitute for a requirement or elective.

The M.A. degree should be sought by students preparing for college-level teaching and continued academic work; the M.S. degree as preparation for field or action application of sociology.

Master of Arts

The student is expected to complete Sociology 801V and a minimum of 21 additional graduate semester hours, including at least nine semester hours of 800V-level work. A thesis is required. 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 his graduate adviser, from a list available through the Sociology Office. The examinations are given a minimum of twice annually, and other times as required. Detailed explanations of graduate requirements should be secured through the Sociology Office.

Master of Science with a Major in Applied Sociology

A student contemplating this degree is expected to complete Sociology 801V and a minimum of 27 additional semester hours of social work foundation courses, at least nine of which are from the 800V-level. 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 report on the experience.

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

TEACHER EDUCATION

The Department of Teacher Education offers graduate degrees in Elementary Education, Reading and Secondary Education. In addition, graduate concentrations are available leading to certification with endorsement in Educational Media, Gifted Education, Vocational Education and Special Vocational Needs.

Admission Requirements

The requirements for unconditional admission into a graduate degree program are as follows:
1. A valid teaching certificate
2. An undergraduate major GPA of 3.0 or above
3. Completion of undergraduate deficiencies
4. An acceptable score on one of the following (must be completed before a second enrollment in classes):
   a. Graduate Record Examination — minimum score of 840 on the Verbal and Quantitative sections
   b. Graduate Record Examination — minimum score of 1200 on the Verbal, Quantitative and Advanced Test in Education
   c. Miller Analogies Test — minimum raw score of 35
Comprehensive Examination

Students who seek the Master of Science Degree must take a written Comprehensive Examination. 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 will be 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 but may also re-examine areas of weakness revealed in 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.

Non-Degree-Seeking Students

Students who are not planning to pursue a program leading to a Master's degree are allowed to take courses for which they meet the prerequisites. Their graduate adviser will confer with them in planning for their 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.

ELEMENTARY EDUCATION

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

Degree Program

I. Requested Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FED 601V, Introduction to Research</td>
<td>6</td>
</tr>
<tr>
<td>FED 602V, History and Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>EED 619V, Diagnostic and Corrective Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EED 640V, Innovations and Trends in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>EED 641V, Introduction to Curriculum Planning - Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EED 644V, Seminar in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>EEDAD 846V, Administration and Supervision in Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>EEDAD 847V, Administration, Educational Media, or an academic concentration, e.g., history, English, mathematics</td>
<td>3</td>
</tr>
<tr>
<td>EEDAD 848V, Administration, Educational Media, or an academic concentration, e.g., history, English, mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

II. Area of Concentration

Each student will include in his Plan of Study, an area of concentration in a special field which will provide depth in an area of his interest. All concentrations will be decided upon in conference with the student's departmental adviser. Possible choices include: Reading, Early Childhood Education, Gifted Education, Guidance, Improvement of Instruction, Learning Disabilities, Urban Education, Educational Administration, Educational Media, or an academic concentration, e.g., history, English, mathematics. 

III. Electives

2-6 hours

Reading

Master of Science

The Master of Science degree with a major in reading conforms to standards of the International Reading Association for the professional training of Reading Specialists. Upon successful completion of the program, the student is recommended for K-12 endorsement in reading in Nebraska.

I. Core Professional Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read 911, Problems of Teaching Reading Elementary</td>
<td>3</td>
</tr>
<tr>
<td>Read 912, Problems of Teaching Reading-Secondary</td>
<td>3</td>
</tr>
<tr>
<td>Read 917, Seminar in Organization and Administration of Reading Program</td>
<td>3</td>
</tr>
</tbody>
</table>

II. Related Professional Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read 918, Seminar in Research in Reading</td>
<td>3</td>
</tr>
<tr>
<td>SPEED 812V, Diagnostic and Remedial Instruction in Reading</td>
<td>3</td>
</tr>
<tr>
<td>SPEED 814V, Measurement and Evaluation of Reading</td>
<td>3</td>
</tr>
<tr>
<td>SPED 815V, Clinical Practica in Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

III. Related Content Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Including introduction to Research and selected work in such areas as foundation and general education, teacher education, special education, and psychology</td>
<td>6</td>
</tr>
<tr>
<td>Including selected work in such areas as guidance and counseling and/or the various subject areas mentioned under sections I and II</td>
<td>12</td>
</tr>
</tbody>
</table>

Secondary Education

Master of Science (with Minor)

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. SED Core Requirements</td>
<td>12</td>
</tr>
<tr>
<td>SED 821V, Seminar in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>SED 820V, Emerging School Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>A course selected from the following:</td>
<td></td>
</tr>
<tr>
<td>a. FED 801V, Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>b. A research course in an academic discipline</td>
<td>3</td>
</tr>
<tr>
<td>c. Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>d. Statistics</td>
<td>3</td>
</tr>
<tr>
<td>II. Professional Supporting Work</td>
<td>6</td>
</tr>
<tr>
<td>SED 833V, Analysis of Teacher Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SED 846V, Simulation/Gaming Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>SED 857V, Seminar in Application of Non-Verbal Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>SED 874V, International Curriculum Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Master of Science (without Minor)

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. SED Core Requirements</td>
<td>9</td>
</tr>
<tr>
<td>SED 821V, Seminar in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>SED 820V, Emerging School Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>A course selected from the following:</td>
<td></td>
</tr>
<tr>
<td>a. FED 801V, Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>b. A research course in an academic discipline</td>
<td>3</td>
</tr>
<tr>
<td>c. Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>d. Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>
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, 803V, 882M, 881V, 884V; and a graduate course in research methods. Courses applicable to the area of concentration may include but are not necessarily restricted to Community and Regional Planning 811M, 813M, 815M, 824; Public Administration 805V, 843M, 881V; Sociology 810M, 814M, 825M; Gerontology 810M, 835M, 848M; Counseling and Guidance 800V, 829M, 879M; Geography 812M, 880V, 881V; A maximum of nine hours of optional credit may be selected from Economics 831M, 832M, 833M, 835V, History 843M, 844M, 847M; Geography 801M, 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. Offerings 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.
Course Descriptions

Art

Studio Art
400/800M Special Studies in Art Education (1-3)
A series of intensive courses in the history and theory of art, education designed specifically for elementary and secondary school art teachers. These courses are scheduled as special seminars or workshops according to interest and availability. Prereq: Graduate standing and departmental permission.

831M Advanced Sculpture (3) Advanced work in area of student's choice with facilities for extracurricular work, welding, and wood working. Prereq: ART 331 and permission of instructor.

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

851M Advanced techniques in printmaking (3) Intaglio, lithography, collagraphy, and the embossed print, stressing color and technical proficiency in the various media. Prereq: ART 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.

841V Graduate Sculpture (3) Advanced problems in sculptural media. Prereq: ART 431 and permission of the instructor.

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

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

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

353/853 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.

371/871M Fauna of the Great Plains (3) A survey of the common animal groups found in the great plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands. Prereq: Biology 175.

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

416/816M Plant Geography (3) A study of the worldwide distribution of major vegetation types and the evolutionary and physiological factors that determine their location. Special attention to North America is included. Prereq: Biology 102 and Biology 145, botany, or permission.

412/812M Problems in Ecosystem Management (2) Directed study of the application and evaluation of methods used for managing native and restored ecosystems. 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 (4) A study of the physical, chemical, and biotic relationships that serve to establish and maintain plant and animal communities in a freshwater environment. Prereq: Biology 145, 175, and organic chemistry.

423/823M Organic Evolution (3) A study of organic evolution in terms of evidence 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. Classroom laboratory experiences and independent studies will be conducted. Prereq: Biol./Psych 427/827M or concurrent enrollment.

433/833M Bryology (3) A course in the identification, classification, ecology, and distribution of bryophytes. Prereq: Biology 344 or permission of the instructor.
484/884M Herpetology (4) The biology of amphibians and reptiles, including taxonomy, population biology, ecology, evolution, classification, anatomy, physiology, ecology, distribution and identification with emphasis on North American groups. Prereq: Biology 175.

485/885M Developmental Biology (4) A study of the principles and development of vertebrate and invertebrate organisms. Current concepts of interactions at the biochemical, cellular, and tissue levels will be included. Required for Biology 175 or 145, and permission of instructor. Prereq: Biology 175.

488/888M Invertebrate Zoology (4) A study of all groups of invertebrates other than insects, and their relationships. Prereq: Biology 175.

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

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

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

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

496/896M Advanced Genetics (3) A survey of the current concepts in genetics with emphasis on new gene concepts, advances in cyto- and population genetics, and the applications of genetics to other areas of biology. Lecture and discussion of selected readings. Prereq: Biology 214 or permission of instructor, Graduate standing in biology. Prereq: Biology 175.

497/897M Vertebrate Behavior and Anatomy (4) A study of the behavior of vertebrates, their diversity, and comparative anatomy. Prereq: Biology 175.

472/872M Experimental Endocrinology (3) Laboratory and theoretical study of the functions of the endocrine system emphasizing experimental techniques and laboratory experience. Prereq: A course in endocrine physiology and/or permission of the instructor. Prereq: Biology 873M, or permission of the instructor.

473/873M Endocrinology (3) A survey of endocrine physiology focusing on the functions of the endocrine system. Prereq: Organic chemistry, vertebrate anatomy and physiology, or permission of instructor. Prereq: Biology 873M, or permission of the instructor.

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

478/878M Vertebrate Zoology (4) A study of the biology of the subphylum vertebrates including the morphology, anatomy, physiology and ecology of vertebrate representatives. Prereq: Biology 175.

479/879M Mammalogy (4) The biology of mammals, including their evolution, functional morphology, anatomy, physiology, behavior, classification and identification with emphasis on North American groups. Field trips. Prereq: Biology 478 or 495 or permission from instructor.
095V Business Conditions Analysis (3) This course is concerned with the measurement and evaluation of general business conditions, and the adoption of business policies to change or control these conditions. Emphasis is placed upon the practical application of the statistical methodology and presents its uses to the business situation, within the framework of the aggregate economy. Prereq: Econ 202 or 8A88H.

098V Reporting and Accounting Forecasting (3) This course includes a comprehensive survey of forecasting methods and their implementation. It discusses techniques used in developing economic models and the measurement of their performance. Emphasis is given to the formulation of a research project to be developed from field data and tested their performance as part of their course. Prereq: BA 800V or ECON 830M or permission of instructor.

097V Marketing Economics (3) Economic analysis of. the firm and its environment, with an emphasis on market structure, pricing, production methods, and marketing strategy. Additional consideration is given the theory of the firm under conditions of uncertainty. Prereq: Econ 201 and 202 or BA 831V.

098V Managerial Accounting (3) A study of the principles and concepts of accounting utilizing internal financial and non-financial data which provides management with information for planning and control of different scale. The course deals with non-routine decision, policy making and long-range planning and for external reporting to stockholders, creditors, and interested parties. Prereq: BA 800V or the equivalent of Managerial Accounting at the undergraduate level should enroll in BA 821V, BA 823V, or BA 825V.

097V Accounting Theory (3) The development of accounting, current accounting theory and pre­

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Civil Engineering

369/869M Transportation Engineering II (3) Introduction to planning and analysis of multimodal transportation systems. Emphasis on traffic, land use, and management aspects. Prerequisites: Civil Engineering 324, 333. Graduate standing. Civil Engineering 334 or permission of the instructor. CE 226, 327, and 428 or 428 concurrently.

345/845M Reinforced Concrete (3) Application of the principles of concrete engineering to design of reinforced concrete structures. Emphasis on control of cracking, prestressing, and long-term deflections. Partially prestressed concrete members. Statically indeterminate structures. Prerequisites: Civil Engineering 444, 841, 847 and Permission of the instructor.

452/852M Water Resources Development (3) Theory and application of systems engineering with emphasis on system simulation and optimization. Special techniques for evaluating alternatives in water resources development. Prerequisites: CE 226, 327, and 424 or 428. Graduate standing. Civil Engineering 334 or 444. Graduate standing. Permission of the instructor.

441/841M Structural Analysis II (3) Analysis of statically indeterminate structures, including concepts of structural systems, plastic collapse, and stability. Prerequisites: CE 226, 327, and 448. Graduate standing. Civil Engineering 334 or 444. Graduate standing. Permission of the instructor.

854M Hydraulic Engineering (3) Fundamentals of hydrology; applications of mechanics of fluids, solids, mechanics of fluids, and engineering economy to the design of hydraulic structures. Emphasis on the use of unsteady flow and wave phenomena. Continuity, momentum, energy principles are applied to special problems from various branches of hydraulic engineering. Prerequisites: CE 444, 841, 847 and Permission of the instructor.

404/804M Environmental Quality Control and Lands, Air, and Waters (3) Application of the principles of soil, engineering, and environmental hydraulics to the control and management of the physical environment (land, air and water) including the solid, liquid, and gaseous components of the environment, water, and wastewater, and environmental hazard assessment. Prerequisites: Civil Engineering 334 and graduate standing. CE 226, 327, and 428 or 428 concurrently.

425/825M Biological Environmental Engineering I (1) Introduction to microbial and physical characteristics of water and wastewater and evaluation of treatment processes. Prerequisites: CE 226, 327, and 428 or 428 concurrently.

426/826M Environmental Control (3) An introduction to the engineering control of air pollution, solid wastes, and radioactivity. Consideration of the interaction of the physical environment (land, air and water) including the solid, liquid, and gaseous components of the environment, water, and wastewater, and environmental hazard assessment. Prerequisites: Civil Engineering 334 and graduate standing. CE 226, 327, and 428 or 428 concurrently.


427/827M Design of Sanitary Treatment Facilities (3) The step by step design of treatment facilities including preliminary design, loadings, and specifications. Prerequisites: CE 226, 327, and 428 or 428 concurrently.

428/828M Advanced Waste Management (3) Application of the principles of soil, engineering, and environmental hydraulics to the control and management of the physical environment (land, air and water) including the solid, liquid, and gaseous components of the environment, water, and wastewater, and environmental hazard assessment. Prerequisites: CE 226, 327, and 428 or 428 concurrently.

429/829M Applications of Microbiology to Sanitary Engineering (3) Applications of microbiology to the treatment of waste waters and sludges with particular emphasis on biological systems. Prerequisites: CE 226, 327, and 428 or 428 concurrently.

477/877M Urban Transportation Planning (3) Development of urban transportation planning. Objectives and goals, data collection procedures, land use, transportation and land use correlations, generation assignment and model and control analysis, simulation techniques, design, operation, and evaluation. Prerequisites: Graduate standing and permission of the instructor.

461/861M Water Resources Development (3) Theory and application of systems engineering with emphasis on system simulation and optimization. Special techniques for evaluating alternatives in water resources development. Prerequisites: CE 226, 327, and 424 or 428. Graduate standing. Civil Engineering 334 or 444. Graduate standing. Permission of the instructor. CE 226, 327, and 448. Graduate standing. Civil Engineering 334 or 444. Graduate standing. Permission of the instructor.

462/862M Airport Planning and Design (3) Principles in planning, locating and designing of airports. Analysis of airport financing, site selection, development of aerodromal demand, traffic control and aircraft characteristics are discussed. Environmental effects of airports, including noise and air pollution problems. Prerequisites: CE 444 or 447, 448, 449. Graduate standing and permission of the instructor.

480/880M Environmental Economy II (3) Economic comparison of engineering systems. Emphasis on principles of equipment selection and replacement, depreciation, break-even points and alternative design. Prerequisites: CE 226, 327, 428 or 428. Graduate standing. CE 226, 327, and 448. Graduate standing. Permission of the instructor. CE 444 or 447, 448, 449. Graduate standing. Permission of the instructor.

485/885M Reinforced Concrete I (3) A study of the principles of mechanics applied to reinforced concrete structural members. Emphasis is placed on...
841M Communications Law (3) A discussion of laws, court decisions, constitutional issues and regulations that affect the mass media, with emphasis on libel, privacy, confidentiality of reporters' sources, prior restraint, obscenity regulation, free press/fair trial, commercial speech, broadcast regulation and intellectual property.

842M Theory of the First Amendment and Press (3) An examination of freedom of communication in the United States with particular attention to freedom of the mass media and the many attempts at censorship. The course examines the philosophies and legal aspects of "speech and press and the theories held by legal scholars. Prerequisite: Communication 440 or 441 or permission.

845M Communication Process (3) A study of the principles, problems and techniques of the public relations process through lectures, discussions, student exercises, and case histories.

851M Management and Supervision (3) A senior seminar applying historical and theoretical perspectives to current issues and developments in mass communication. Prerequisite: Admission to candidacy (or approval by the student's committee).

852V Independent Research or Creative Projects (I-6) Non-thesis projects for majors in Communication. The mass communication system in the United States will be examined in terms of its basic philosophical and legal assumptions and the current political, cultural, sociological and psychological theories relating to the mass communication process.

857V Foundations Seminar: Mass Communication (3) This seminar was designed for students preparing to take the major, a minor, or advanced semesters. Principles underlying current issues in mass media communications will be examined by means of selection from recent developments and contemporary perspectives. Prerequisite: Graduate standing and major in Communication or instructor's permission.

858V Seminar in Communication Theory (3) Analysis of current approaches to the study of communication, with emphasis on theoretical models, and their application to various professions. Prerequisites: Communication 347V or the instructor's permission.

859V Independent Research or Creative Projects (1-6) Non-thesis projects for students preparing to take the major, a minor, or advanced semesters. Principles underlying current issues in mass media communications will be examined by means of selection from recent developments and contemporary perspectives. Prerequisites: Admission to candidacy (or approval by the student's committee).
procedures; with special emphasis on rehabilitation procedures and methods associated with classification, clustering, dyspraxia, and aphasia. Prereq: 2.5 GPA.

468/480M Developmental Emotional Development of Children and Adolescents (3) The study of emotional development and its biological, psychological, and environmental factors that affect social and emotional development of children and adolescents. Emphasis is placed on the cause of emotional development and its influence. Prereq For 445, junior standing. 2.5 GPA. (F,S)

467/851M Basic Clinical Practicum in Speech Pathology and Audiology (3) This course is designed to familiarize the student with the clinical application of methods in the diagnosis and treatment of communication disorders of children and adults. Prereq: For 451, Special Education 444. For 451, 2.5 GPA. For 464, 3.0 GPA. For 467, 3.5 GPA. For 485, 3.5 GPA. Prereq: GERO 455/456 or permission of instructor. (F,S,Su)

465V Current Practices in Speech Pathology (3) This course provides for study and experience in speech pathologist's techniques and current modifications based on Skinnerian behaviorist principles. Prereq: FED 801. (S,Su)

469V Research Projects (3) Individual or group study and analysis of specific problems.

810V Clinical Instruction in Reading (3) A course for advanced students in reading which will provide them with experience and training in handling referrals, differentiating between specific and non-specific functional level case reports and general practices that are necessary for effective diagnostic reading clinics. (F,S,Fr) Prereq: SPD 800.

814V Measurement and Evaluation of Reading (3) A clinic oriented course for advanced graduate reading students which will provide them with supervision and training in handling referrals, differentiating between specific and non-specific functional level case reports and general practices that are necessary for effective diagnostic reading clinics. (F,S,Fr) Prereq: SPD 812.

815V Clinical Practice in Reading (3) A laboratory-oriented course for clinicians who are interested in teaching reading to students in reading programs for the retarded and other students who may be interested. Major emphasis is on the development of basic oral language skills which will be considered. Prereq: SPR 452 or equivalent. (S,Su)

834V Pediatric Audiology (3) The course is designed for graduate majors in speech path and audiology and for students in education of the hearing impaired. The purpose of the course is to introduce techniques and methods for the understanding of the development of human hearing in the child. The course will include basic terminology, techniques for testing and assessment of children categorized as hearing impaired, infants and preschool children. Prereq: SPED 830 or equivalent. Prereq: Hearing Disorders, SPED 438.

842V Current Practices in Speech and Language Disorders (3) Types and causes of speech and language disorders; case selection; classification; and remedial procedures. Prereq: Hearing Disorders, SPED 437.

845V Current Practices in Speech Pathology (3) This course is designed to familiarize the student with the current literature and emphasizes operant and language remedial procedures. (F)

846V Diagnostic Methods in Communicative Disorders (3) Tests and techniques in evaluating individuals with speech disorders; principles of differential diagnostic and report writing; observation and evaluation of language disorders. Prereq: Graduation 64. (S)

847V Speech Science III: Neurophysiology of Speech and Language (3) Introduction to human physiological responses and mechanisms of speech and language. This course is placed on gaining familiarity with the brain mechanisms and sensory and motor processes which provide the underlins of human communication and its disorders; individual projects. (F)

848V Advanced Audiology (3) This course is intended for graduate students majoring in speech pathology. It is designed to present information and principles of clinical cochlear implantation. Course content includes specialized techniques associated with the assessment and diagnosis of auditory dysfunction. Application of basic hearing techniques will be provided. Special emphasis on assessment of false lesion will be trained. The case of hearing, etiological considerations, identification and audiometry, and identification of the factors to be considered. Prereq: SPR 437.

850V Basic Clinical Practicum in Speech Pathology (3) This course in practice provides the student with an opportunity to observe and work with clients who will be seen in either a school or medical setting. A minimum of 45 clock hours is required for each credit hour per semester. (F,S,Su) Prereq: 451 or graduate standing.

852V Advanced Clinical Practicum in Speech Pathology (3) The second semester of advanced clinical practicum. This course includes a supervised externship setting with a cooperating master clinician. A minimum of 45 clock hours is required for each credit hour per semester. (F,S,Su) Prereq: 451.

853V Seminar in Speech Pathology (3) Student selects and investigates three different areas of current concern in speech pathology; initial survey, annotated bibliography, reading of current literature and emphasizes operant and language remedial procedures. (S)

854V Student Clinical Practicum (3) An individual or group study and analysis of specific problems.
COURSE DESCRIPTIONS

802V Seminar in Administration of Justice (3) Justice as a career: qualità of an offense and an inquiry into the influences and pressures upon individuals across the criminal justice spectrum who occupy the ranks of the citizenry. More feasible and improved systems of delivery of the criminal justice system. Prerequisite: CJ 203 and permission of instructor.

803V Comparative Law Enforcement Systems (3) Structure and functional examination of modern law enforcement systems outside of the United States and Europe. Emphasis placed upon historical development, current practices and trends. Prerequisite: CJ 203 and permission of instructor.

804V Seminar in Community Services and Treatment (3) An analysis of special problems and issues facing those who work in criminal justice, including: the use of alternatives to incarceration in the community setting, and of the feasibility and effectiveness of treatment of individuals under sentence in the community based treatment system. Prerequisite: CJ 455 and permission of instructor.

807V Theoretical Criminology (3) A study of the etiology of crime as a social phenomenon and an objective analysis of the relationship between crime and the thought which molded its development into an accepted contemporary science. Prerequisite: CJ/Soc 335, graduate standing and permission of instructor.

808V Seminar in The Processes of The Criminal Justice System (3) An examination of the interactions of the constituent elements of the American criminal justice system with emphasis on organizational and personnel interfacing. Prerequisite: Permission of instructor.

809V Seminar in Delinquency Prevention, Control and Correction (3) An inquiry into the social ramifications of the entire juvenile justice system from the social, community, and preventive process including labeling, detention, incarceration and tolerance. Pre- and post-adjudicatory issues are dealt with as well as an overview of preventative measures given to delinquency prevention strategies. Prerequisite: None.

811V Special Problems in Criminal Justice (3) A course devoted to an exploration and analysis of contemporary special problems in criminal justice and corrections. Prerequisites: CJ 203 and permission of instructor.

812Y Criminal Justice Research Theory and Methodology (3) Research theory and methodological and statistical techniques as applicable to criminal justice; preparation of research designs, conceptual models, sampling procedures; and development of individual research papers. Prerequisite: Permission of instructor.

814V Independent Study (1-3) Individual projects in research, literature, review of topics in criminal justice which may or may not be an extension of course work. The work will be evaluated by departmental graduate faculty members. Prerequisites: Graduate hours in major department and permission of instructor.

899V Master's Thesis (1-6)
I study the principles of play direction. PreReq: DA 109.


Course work will be designed to introduce students to the study of dramatic arts in basic techniques of sobrecy roles, as well as the preparation of meaningful, defining the problem, and preparing the manuscript. PreReq: permission.

Dramatic Art Theory and Criticism (3) For advanced students of dramatic literature. Important dramatic theories of the 20th century and economic performance in a variety of industries. PreReq: Econ 320.

E320/830 Economics (3) The study of the underly ing economic processes at the frontier of economic theory. PreReq: Econ 320 or permission.

E130 V Technical Theatre Problems (3) A practical in play selection, analysis, cast ing, lighting, and directing. PreReq: DA 201, 206, 263, or permission of the instructor.

E45 M Directing: Rehearsal and Performance (3) An introduction to the fundamentals of stage design, including line, silhouette, movement, color, and texture. Emphasis on the visual presentation of designs, including considerable work in drawing and rendering tech­

E260 V Seminar in Theatre History (3) Study of the plays of Shakespeare and other major playwrights. PreReq: DA 331 or permission of instructor.


E270 M Stage and TV Lighting (3) Characteristics and techniques of lighting for the stage, the designer's approach to the play, production of ground plans and sketches. PreReq: DA 101, 206, 260, 261, 263.

E271 M History of the Theatre to 1642 (3) A historical survey of the theatre and its literature from its origins to 1642.

E272 M History of Theatre Since 1642 (3) A historical survey of the theatre and its literature from 1642 to the present.

E273 M Seminar in Theatre History (3) Selected subjects in theatre history from ancient to modern times. The course will change each year, according to the interests of the students and the instructor. PreReq: Permission of the instructor.

E283 M Seminar in Dramatic Literature (3) A survey of the important and advanced undergraduate subjects which will explore selected subjects in dramatic literature in depth. Research papers and seminars are required. PreReq: Permission of the instructor. The seminar will change from year to year. PreReq: Permission of the instructor.

E285 V Seminar in Play Direction (3) An indepth study of the principles of play direction. PreReq: Graduate standing and permission of instructor.

E286 V Technical Theatre Problems (3) Research and discussion of the theatrical and physical results of the relationships between dramatic form, theatre architecture, and scenic design and lighting from historical and contemporary points of view. PreReq: DA 101, 261, 267, 471, 472 or permission.

E290 V Dramatic Arts Research Methods (3) This course provides the quantitative and qualitative research methods of play selection, and the national economy and to the other business sectors. The subject matter includes interpretation, analyses of the theatre. Emphasis on the sources, background, and structure of the instruction. PreReq: Econ 202 and DS 213 or permission of the instructor.

E291 V Dramatic Theory and Criticism (3) For advanced students of dramatic literature. Important dramatic theories of the 20th century and economic performance in a variety of industries. PreReq: Econ 320, 471, 472 and English 252 or permission.

E292 V Play Project (3) Final project for Option II. PreReq: Admission to candidacy and the approval of the instructor. Spring in even-numbered years.

E298 V Research in Financial Economics (3) This course is designed to introduce the theoretical basis of modern taxation and expenditure processes at the frontier of knowledge. PreReq: Econ 320, 322 and Econ 322 or permission of instructor.

E299 V Seminar in Regional Economics (3) An analysis of the theoretical basis of regional economic development and its impact on the working of the international monetary system. Cross-listed with BA 808V. PreReq: BA 800Y or ECON 830M or Permission of Instructor.

E305 V Economic Education (3) Emphasis is given to an analysis of the problems of a regional nature. In addition, the course includes a comprehensive survey of forecasting and modeling techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. PreReq: Econ 320 or Econ 322 or permission of instructor. Not open to students who have had BA 802V.

E307 V Research Methods in Economics (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. PreReq: Econ 320 or Econ 322 or permission of instructor.

E309 V Economic Education (3) An analysis of the theoretical basis of regional economic development and its impact on the working of the international monetary system. Cross-listed with BA 808V. PreReq: BA 800Y or ECON 830M or Permission of Instructor.

E345 V Research Methods in Economics (3) A study of the underly ing economic processes at the frontier of economic theory. PreReq: Econ 320 or permission.

E350 V Economics (3) The study of the underly ing economic processes at the frontier of economic theory. PreReq: Econ 320 or permission.

E355 V Quantitative Applications in Economics (3) This course is designed to develop the theoretical basis of modern taxation and expenditure processes at the frontier of knowledge. PreReq: Econ 320, 322 and Econ 322 or permission of instructor.

E357 V Economic Education (3) This course is designed to introduce the theoretical basis of modern taxation and expenditure processes at the frontier of knowledge. PreReq: Econ 320, 322 and Econ 322 or permission of instructor.

E365 V Economic Education (3) This course is designed to introduce the theoretical basis of modern taxation and expenditure processes at the frontier of knowledge. PreReq: Econ 320, 322 and Econ 322 or permission of instructor.

E367 V Seminar in Labor Economics (3) A study and investigation of current developments and issues in labor economics. PreReq: Econ 320, 322 and three hours of credit in undergraduate course work or permission of the instructor. At least 6 hours in undergraduate microeconomic course work or permission of the instructor.

E370 V Seminar in Urban Economics (3) An examination of the theoretical basis for the analysis of urban economic problems. PreReq: Econ 365 or 466 or permission of instructor.

E375 V Seminar in Regional Economics (3) An examination of the theoretical basis for the analysis of urban economic problems. PreReq: Econ 365 or 466 or permission of instructor.

E377 V Seminar in Labor Economics (3) A study and investigation of current developments and issues in labor economics. PreReq: Econ 320, 322 and three hours of credit in undergraduate course work or permission of the instructor.

E380 V Micro Theory I (3) This course deals with the development of microeconomic theory. The major topics covered are the theory of consumer behavior, theory of production and cost, and the theory of market structure, demand, supply, and welfare theory. PreReq: Econ 320 and 322 or permission.

E381 V Managerial Economics (Same as BA 810V) (3) Microeconomic and macroeconomic principles of business policy and managerial decision making. PreReq: Econ 320 and 322 or permission.

E382 V Natural Resource Economics (3) Energy, minerals, fisheries, water, land, pollution control, and tenancy are discussed. The course covers the basic theoretical framework for understanding the act of resource control that underlies the factors which determine the actual rate of use, and considers and evaluates various public policies. PreReq: Econ 320 and DS 212, or permission of instructor.

E383 V Transportation Economics (3) Study of transportation and its role in the economy and the national economy and to the other business sectors. The subject matter includes interpretation, analyses of the theatre. Emphasis on the sources, background, and structure of the instruction. PreReq: Econ 202 and DS 213 or permission of the instructor.

E384 V Monetary Theory and Policy (3) This course covers the classical theory to current monetary theories. Besides the classical theory, the monetary theories of Keynes, the neo-Keynesians, and the neo-classical are examined and compared. The importance of expectations in monetary theory is emphasized. PreReq: Econ 322 or permission of the instructor.

E385 V Statistical Analysis (3) This course covers statistical methods and economic analysis of data. PreReq: Econ 320 or permission of instructor.

E386 V Research Methods in Economics (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. PreReq: Econ 320 or Econ 322 or permission of instructor. Not open to students who have had BA 802V.

E387 V Research Methods in Economics (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. PreReq: Econ 320 or Econ 322 or permission of instructor.

E388 V Research Methods in Economics (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. PreReq: Econ 320 or Econ 322 or permission of instructor.

E389 V Research Methods in Economics (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. PreReq: Econ 320 or Econ 322 or permission of instructor. Not open to students who have had BA 802V.

E390 V Research Methods in Economics (3) A study of current quantitative research techniques in business and economics. The student will become familiar with these techniques through text materials, journal studies and actual applications. PreReq: Econ 320 or Econ 322 or permission of instructor. Not open to students who have had BA 802V.
I. Prereq: Permission of graduate adviser.

849V Theory and Practice of Supervision (3) An in-depth inquiry into the nature and function of supervision, use of data collection of students in relevant fields. To incorporate the salient psychological, sociological, business and social sciences into administrative and supervisory concepts of personnel and organizational development as they relate to the educational system. Prereq: EDAD 835, EDAD 846, or EDAD 847.

855V School Business Management (3) An analysis of the nature, principles and functions of budgetary procedures, financial accounting, auditing and reporting, management, planning and programming of the physical plant; and administration of property; and administration of transportation. Each is approached through study of most recent court pronouncements.

Educational Foundations

418/518M Mental Health (3) A study of the nature and principles of mental health and mental illness, with an emphasis on illness and disease as they relate to others and learning about oneself. Secondary emphasis is placed upon communication problems and the impact of institutional discipline on individual or group behavior upon mental health. Prereq: Junior or Senior standing.

458/558M Growth and Learning Problems of Disadvantaged (3) An intensive study designed to help students understand the systems as planning bases for school administration, and the role of electronic data processing in its implementation. Prereq: Admission to the Department. 825V Data Processing in Educational Adminis­tration (3) Continuation of Education (3) An analysis of the role of the school in relation to community organizations found in Europe, Asia, Latin America, and Africa; particular emphasis is placed on a total study of the society selected and its resulting educational adoption and future educational directions. Prereq: Admission to the Department. 805V Seminar in Urban Education (3) Systematic study of the problems and developments which have current significance to the student of education; individual student and group analysis emphasized.

806V Education and Society (3) A study of the problems that modern society confronts with and the role(s) that education can play in helping society meet its challenges. Emphasis will be placed on the interface between the school and the community, the institutions and the other major arenas forming the social fabric. Attention will be given to the mechanisms of change.

807V Alternative Strategies for Education (3) An intensive study of the impact of present school organization and practices on educational innovation. A brief examination of the historical development and theoretical assumptions underlying the traditional school organization and practices, followed by a course designed for students to design a new school program will be served as a foundation for course work and will evaluate the merit and utility of contemporary strategies. Stress will be placed on the wide social implications of the models discussed.

810V The Urban School (3) An analysis of the societal and institutional influences and problems which have bearing upon the educational situation in urban settings. A study of the problems faced by the school with emphasis on the social conditions.
Simultaneously algebraic equations. Numerical stress and strains at a point. Theories of failure.


beam for beams.

walled sections, open, closed, and multicelled.

anomalous vibrations, shock, and nonharmonic disturbances. Shock spectra. Rayleigh's method.


Prepar: Math 235; ENGR 112.

English

185M Contemporary French and German Novel (3) A study of selected contemporary French and German novels in translation. Prereq: Permission of the instructor. (Same as French 417A/817M and German 417/817M).

187M Contemporary French and German Drama (3) A study of selected contemporary French and German plays. Conducted in English with German and/or French readings. (Same as French and German 417/817M). Prereq: Permission of the instructor.

280M American Literature and Culture (3) A study of representative works of Mexican American, Spanish American, and American writers, along with their cultural and historical antecedents. Prereq: Permission. (Same as Spanish 418/ 818M).

285M Introduction to Women's Studies in Literature (3) A critical study of literature by and about women in which students learn about the identity and roles of women in various contexts, and evaluate standard interpretations of women's texts. Emphasis is on the influences of society and culture on women's lives and writings. Prereq: Any 100-level course in English; English 200 or permission.

185M Middle English Literature (3) A survey of the principal writings in English, excluding those of Chaucer, from 1100 to 1500.

823M Sixteenth Century Literature (3) Poetry and prose of the English Renaissance, from its continental origin to the end of the Elizabethan Age.

834M Chaucer (3) A literary and linguistic study of the works of Chaucer, with emphasis on the Canterbury Tales.

840M The Age of Pope and Swift (3) Poetry, prose (exclusive of the poems of Pope and Swift), and drama of England during the Restoration and the first half of the eighteenth century, with emphasis on Pope and Swift.

841M The Age of Johnson (3) Poetry, prose (exclusive of the poems of Pope and Swift), and drama of England during the second half of the eighteenth century, with emphasis on Boswell and Johnson.

848M Seventeenth Century Literature (3) A study of the English poetry and prose from 1600 to 1660 including the Elizabethan, Jacobean, and Restoration periods.

850M Shakespeare's Contemporaries (3) A study of the development of the English drama, exclusive of Shakespeare, from the end of the sixteenth century to the colonial period up to the contemporary period.

854M American Poetry (3) The theory and practice of poetry in America. Prereq: 100M.

883M 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.

869M Shakespeare (3) A critical study of selected comedies, histories, and tragedies. May be repeated for credit as 511-512 or 811-812.

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

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

866M The Twentieth-Century English Novel (3) Readings in the English novel from the end of the nineteenth century to the present.

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

870M Modern and Contemporary American Literature (3) A study of selected contemporary literary traditions, including fiction, poetry, drama, and novel. Special emphasis is on contemporary ruminations. Prereq: English 458/858M or permission.

878M Twentieth-Century American Drama (3) A study of the American drama and its theatrical background from the beginning to the present day, with concentration on the plays of the twentieth century.

801V Seminar: Introduction to Literary Research (3) A seminar based on readings from a contemporary literary text, with emphasis on methodological issues in literary and cultural theory as well as the relation of literature to other cultural forms. Prereq: ENGL 458/858M or permission.

817M Language and Literature (3) A study of selected works of the English language, including selected works of Geoffrey Chaucer. Prereq: ENGL 458/858M or permission.

897M The American Novel (3) A critical and historical survey of the American novel from its beginnings to the present. May be repeated for credit as 517M/817M.

898M The American Drama (3) A study of selected works of the American drama, its historical and cultural context, and its relation to the audience. Prereq: ENGL 458/858M or permission.

908V Seminar: Shakespeare (3) A critical analysis of Shakespeare's works. Prereq: Graduate standing or permission of the instructor.

909V Seminar: The Restoration and Early 18th Century Literature (3) A detailed study of selected works of the Restoration period and works of the Restoration and the Augustan Age (1660-1750). Prereq: Graduate standing.

910V Seminar: Victorian Literature (3) An intensive study of a few authors, genres, literary movements or literary problems not covered by regular semester or summer courses. (This course may be repeated for credit as long as the content changes.) Prereq: Graduate standing or permission of the instructor.

915V English Literature 1750-1830 (3) A study of selected writings in middle English. Prereq: Graduate standing and one course in middle English language or writings.

916V Independent Study (3) Specialized study in a field of English literature selected by the student and approved by the instructor. May be repeated for credit as 916V. Prereq: By permission of the instructor.

917V Seminar: Middle English Literature (3) A study of selected major literary figures and major literary movements which have appeared since World War II.

926V Seminar: Linguistics (3) A seminar in a selected linguistic topic or technique, such as sociolinguistics, generative semantics, applied linguistics, descriptive linguistics, teaching English as a foreign language, etc. Prereq: English 458/858M and permission of the instructor.

937M The American Novel (3) A critical and historical survey of the American novel from its beginnings to the present day, with concentration on the works of the nineteenth century.

940V Seminar: The Restoration and Early 18th Century Literature (3) A critical analysis of the Restoration and Early 18th Century literature. Prereq: Graduate standing or permission of the chairman of the department.

940V Seminar: Shakespeare (3) A critical analysis of Shakespeare's works. Prereq: Graduate standing or permission of the chairman of the department.

941V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected works of the Restoration period. Prereq: Graduate standing or permission of the chairman of the department.

943V Seminar: Victorian Literature (3) An intensive study of a few authors, genres, literary movements or literary problems not covered by regular semester or summer courses. (This course may be repeated for credit as long as the content changes.) Prereq: Graduate standing or permission of the instructor.

945V Seminar: Middle English Literature (3) A study of selected writings in middle English. Prereq: Graduate standing and one course in middle English language or writings.

952V Seminar in Chaucer (3) A study of selected works of Geoffrey Chaucer. May be repeated for credit as 452V. Prereq: Graduate standing and one course in middle English language or writings.

958V Independent Study (3) Specialized study in a field of English literature selected by the student and approved by the instructor. May be repeated for credit as 958V. Prereq: By permission of the instructor.

962V Seminar: Shakespeare (3) A critical analysis of the plays and sonnets of William Shakespeare. Prereq: Graduate standing.

975V English Literature 1750-1830 (3) A study of selected writings in middle English. Prereq: Graduate standing and one course in middle English language or writings.

979V Independent Study (3) Specialized study in a field of English literature selected by the student and approved by the instructor. May be repeated for credit as 979V. Prereq: By permission of the instructor.

980V Seminar: 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.

989V Seminar: The Restoration and Early 18th Century (3) A detailed study of selected works of the Restoration period. Prereq: Graduate standing or permission of the chairman of the department.

993V Seminar: Victorian Literature (3) An intensive study of a few authors, genres, literary movements or literary problems not covered by regular semester or summer courses. (This course may be repeated for credit as long as the content changes.) Prereq: Graduate standing or permission of the instructor.

995V Seminar: Middle English Literature (3) A study of selected writings in middle English. Prereq: Graduate standing and one course in middle English language or writings.

1005V Seminar in Chaucer (3) A study of selected works of Geoffrey Chaucer. May be repeated for credit as 1005V. Prereq: Graduate standing and one course in middle English language or writings.
481/811M Advanced Geomorphology (3) This course is intended for students in Geomorphology and other fields who are interested in a humanistic approach to understanding the history of geography. Prereq: Nine hours of sociology. (Same as Sociology 411)

483/835M Issues in Aging (3) This course is intended for students in Gerontology and other fields who are interested in a humanistic approach to understanding the history of geography. Prereq: Nine hours of sociology. (Same as Sociology 411)

494/894M Practicum (0-6) This course provides the opportunity to students to share field experiences and to observe and participate in related work with older adults. For Counseling and Guidance majors not specializing in Gerontology. Prereq: Counseling 867M. Permission of the instructor is required. (Same as Counseling 494/894M)

946/986M Counseling Skills in Gerontology (3) This course is intended to help develop basic counseling skills for application in gerontology. Prereq: Permission of instructor. (Same as Sociology 494/894M)

950P Counseling Older Adults (2) Designed to provide basic information counselors need for social work with older adults. For Counseling and Guidance majors not specializing in Gerontology. Prereq: Counseling 867M. Permission of the instructor is required. (Same as Sociology 494/894M)

973V Thanatology-Study of Death (3 sm hours) An examination of theory and research relevant to the practice of thanatology, focusing on communication with widows and other survivors as well as the process of death. May be repeated with approval. 3 hours Gerontology, 3 hours Sociology. (Same as Sociology 494/894M)

975V Geropsychology (3) This course is intended to help develop basic counseling skills for application in gerontology. Prereq: Permission of instructor. (Same as Sociology 494/894M)

980M Directed Readings in Counseling and Gerontology (1-3) A study of recent and current literature on counseling with the elderly, special populations, and / or gerontology or permission of instructor. May be taken with approval. Course may be repeated with approval. 1-3 credits. (Same as Counseling 980M)

987V Personal Values and Aging (1) Course designed to increase students' self-awareness of personal values and feelings related to aging in the 90s

997R General Health Issues (3) To become familiar with the knowledge of aging from a social and psychological perspective. The focus will be on psychological research in the middle years and in later years. (Same as Psychology 504) Prereq: 12 hours of psychology and/or gerontology permission.

Health, Recreation

General HPER

800P Special Studies (1-3) A series of intensive courses — scheduled as regular seminars, or

845/855M Health Aspects of Aging (3) The study of the health problems of the elderly, the physiological and psychological factors that influence the health of the elderly, with particular emphasis on understanding the biological changes that have implications for disease and health disorders. (Same as HED 455)
8SV Supervision of Physical Education (3) Concepts, principles, organization, and techniques of supervision for use by supervisors and teachers in the construction and supervision of programs of physical education.

826V Curriculum in Physical Education (3) A study of the foundations for curriculum development and related educational problems. Special consideration is given to curriculum change, curricular patterns, and programs in physical education.

830V Analysis of Research and Literature in Human Movement (3) Survey of research in human movement for the purpose of orienting the student to possible areas of research and understanding an appreciation of writings in the field.

837V Improvement of Instruction in Physical Education (3) An examination and discussion of current programs, content, methods, and materials with an emphasis on understanding and evaluating improvement of each individual's teaching in the physical education program. Prerequisite: Permission of instructor.

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

845V Kinesiological Analysis of Motor Skills (3) An experimental study of motor performance. Includes a descriptive analysis of sports skills and fundamentals of care and safety with the introduction of basic principles and techniques for collecting biomechanical data.

406V Measurement, Evaluation and Testing of Coaching Athletes (3) This course is designed to provide the graduate physical education student with an overview of the sociocultural, behavioral and cultural aspects of human sexuality. Priority will be given to students from other disciplines who have permission of the instructor.

833V Sex Education for School Personnel (3) A study of the problems associated with alcohol use and misuse. The patterns and trends of use, the social, educational, pharmacological aspects and health consequences are explored. Emphasis is given concerning the identification of students problems related to alcohol and the role of school in alcohol prevention, education, intervention, and treatment. Priority is given to students depending primarily for public school personnel.

Physical Education

822V Problems and Issues in Physical Education (3) An examination of current problems and issues that relate to the general aims and purposes of physical education as they relate to society. Priority will be given to Graduate student status.

824V Sport in American Culture (3) The course is a study of sport and its influence on people in America.

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

826V Curriculum in Physical Education (3) A study of the foundations for curriculum development and related educational problems. Special consideration is given to curriculum change, curricular patterns, and programs in physical education.

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824V Sport in American Culture (3) The course is a study of sport and its influence on people in America.
tance of industrialization, urbanization, immigration, and the emergence of the United States as a significant world power.

427 /827M Twentieth Century America to 1932 (3) A study of the history of the United States since the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 427, junior standing or permission of the instructor.

428/828M Twentieth Century America Since 1932 (3) A study of the history of the United States since the election of Franklin D. Roosevelt to the presidency in 1932. Prereq: For 427, junior standing or permission of the instructor.

430/830M Constitutional History of The United States to 1860 (3) A history of constitutional theory and practice since 1860. Prereq: For 430, junior standing or permission of the instructor.

431/831M Constitutional History of The United States Since 1860 (3) A history of constitutional theory and practice since 1860. Prereq: For 430, junior standing or permission of the instructor.

440/840M History of North American Indians (3) A survey of traditional North American Indian cultures, their contact with transplanted European peoples, and the continuing problems faced today. Prereq: For 440, junior standing or permission of the instructor.

443/843M American Urban History (3) Historical survey of urban development in the United States from pre-colonial times to the present. Prereq: For 443, junior standing or permission of the instructor.

446/846M History of Medical Science and Public Health (3) Analysis of the relationship between medicine, medical practice, public health problems and institutional development, and the changes in American society and culture, and the American and European experiences of medicine. Prereq: For 446, junior standing or permission of the instructor.

451/851M The Age of Modern History: From the Renaissance to the French Revolution (3) A study of enduring political, religious, economic, intellectual, and social ideas, and of the historical events in which they were involved. Prereq: None.

452/852M Intellectual History of the Modern Era: From the French Revolution to the Present (3) A study of the role of ideas in the making of history. Prereq: For 452, junior standing or permission of the instructor.

455 /855M The French Revolution and Napoleon (3) A study of the French revolution and the Napoleonic era with particular attention to the lives of its key political figures, the revolution in France, the power of Napoleon and its impact on Europe. Prereq: For 455, junior standing or permission of the instructor.

456 /856M Europe Betrays Its Promise (1815-1890) (3) A study of reform and reaction which resulted in the Balkan uprisings, the extension of the peace in Europe and the time symbol tables, lexical scan, syntax scan, and object code generation. Prereq: For 456, junior standing or permission of the instructor.

457 /857M Europe Betrays Its Promise (1815-1890) (3) A study of reform and reaction which continued to World War I, the war itself, the resultant dislocation of power and the emergence of modern secular thought and construction of probabilistic models for queueing, inventory and simulation. Prereq: For 457, junior standing or permission of the instructor.

460/860M Medicine and the State (3) A study of the interactions between medicine and politics, and the resultant impact on society. Prereq: For 460, junior standing or permission of the instructor.

461/861M Tudor and Stuart England (3) A study of England under the Tudors when the English people solidified the monarchy and experienced a golden age, and the Stuart's continued modernization and strength. Prereq: For 461, junior standing or permission of the instructor.

462/862M English History: From Empire to World Power (3) A study of the history of English development in Great Britain from the late 18th century to 1914. Prereq: For 462, junior standing or permission of the instructor.

464/864M Evolution and Revolution in Nineteenth Century Russia (3) A pre-seminar emphasizing the nineteenth-century revolution tradition, prototypes, ideology and impact upon Russian society. Prereq: For 464, junior standing or permission of the instructor.

467/867M Europe in Crisis: 1890-1932 (3) A study of the conditions and forces immediately preceding World War I, the war itself, the following the war and the rise of the modern dictatorships. Prereq: For 467, junior standing or permission of the instructor.

468/868M Europe in the Global Age: 1933 to The Present (3) A study of the ever increasing tensions between the small nations of the world and the large world powers; the rise of the superpowers, and the western democracies, World War II, the cold war, and the struggle for power and the structure of the balance of terror. Prereq: For 468, junior standing or permission of the instructor.

801V Advanced Research Project in History (1, 11, S-1) Special problems in advanced research in history, arranged individually with graduate student advisors. Prereq: For 801V, permission of the instructor.

806V Seminar in Historiography (3) A study of major historians and the significant trends of modern historical scholarship. Prereq: None.

482/882M Programming Languages (3) Definition of programming languages. Global properties of algorithmic languages including scope of declaration, storage allocation, control structures, binding time. Subroutines, coroutines and tasks. Comparisons of several languages. Prereq: CS 231 and 332.

430/830M Linear Programming (3) Theory of simplex method, optimal integer solutions, infeasible and unbounded problems, quality, sensitivity analysis, implementation of a commercial LP package. Comparison of various assignment algorithms, integer programming techniques, Same as Math 830M. Prereq: Math/CS 205.


435/835M Computer Architecture (3) Basic digital circuits, Boolean algebra, combinatorial logic, digital storage and accessing, control functions, output facilities, system organization and realizability. Description and simulation techniques. Features needed for multiprogramming, multiprocessing and real-time systems. Prereq: CS 231 and 235, and one of CS 170, 172, or 173.

450/850M Operating Systems (3) Operating system principles. The structure of a compiler, including compile-time and run-time symbol tables, lexical scan, syntax scan, and object code generation and error diagnostics. Prereq: CS 332 and 422. CS 450 is recommended. Prereq: CS 450.

Mathematics

305/805 Linear Algebra (3) The theory of vectors, vector spaces, linear transformations, matrices, determinants, eigenvalues, and characteristic values. Unlike Math/CS 205, this course stresses the theoretical aspects of linear algebra. Prereq: Two semesters of Calculus and Math 201, or permission of instructor.

283/883 Complex Variables (3) An introduction to complex variables, with applications to calculus and physics. Prereq: Math 186. It is further recommended that the student has taken Math 179 or Math 181.

883/383 Introduction to Mathematical Proofs (3) Provides a theoretical foundation for the concepts of elementary calculus. Topics include the real number system, topology of the real line, limits, functions of one variable, and the intermediate value theorem. Prereq: Math 186.

283/883 Complex Variables (3) Complex functions, power series, and contour integrals. Prereq: Math 186.

283/883 Complex Variables (3) Complex functions, power series, and contour integrals. Prereq: Math 186.

424/824 Mathematical Analysis II (3) Provides a rigorous foundation for the calculus. Topics include sequences of numbers, series, uniform convergence, improper integrals, and complex functions. Prereq: Math 283/883.


him in a formal course. The topics will be
a graduate area in mathematics to be determined by the
instructor. Prereq: Permission of instructor and
graduate classification.

91 Advanced Topics in Algebra I

92 Advanced Topics in Algebra II (Each) ... three credit hours. To be repeated one

93-94 Theory of Functions of Real Variables (Each) ... need for Math 912.

92-93 Functional Analysis (Each) Semester I: Normed linear spaces, operators, duality, ... offered in the fall of

94-95 Special Studies in Music (Each) Prereq: Math 427 and two 400V

96 Statistics

800M Statistical Methods I (3) Distributions, introduction to measures of central value and dispersion, population and sample, the normal distribution, inference: Single population, inference: Two populations, introduction to analysis of variance, correlation, regression, and contingency tables, all of which will also be studied in the course. Prereq: Math 131 or equivalent.

801M Statistical Methods II (3) Regression and correlation, analysis of covariance, chi-square type statistics, more analysis of variance, questionnaire statistics. Statistical packages are used when appropriate. Prereq: Statistics 800M or equivalent.

Music

800M Special Studies in Music (1-3) Seminar or Workshop in Theory, History, Performance, and Music Education designed to meet specific interests and needs of students. Topics and number of credits for each specific offering will be announced during the period of the semester. Prereq: Graduate standing and departmental permission.

854M Renaissance and Baroque Music Literature (3) Study of representative compositions of the Renaissance and Baroque periods. Written projects. Prereq: 6 hrs. of undergraduate music history and permission.

855M Classical and Romantic Music Literature (3) Study of representative compositions from the Classical and Romantic eras (e.g., the American and French Revolutions, rise of Napoleon, the Holy Alliance, and the establishment of the State of Israel) will be analyzed for their ongoing impact. Prereq: Nine hours in Religion or permission of instructor.

Philosophy and Religion

Philosophy

465/865M Philosophy of Mind (3) A discussion of various accounts of the nature of minds which focus upon philosophical problems such as whether mind (if it is identical with the brain), the extent of similarities between human minds and computers, the nature of personal identity, and the relationship of mental activity to behavior.

Religion

415/815M Judaism in the Modern Age (3) A critical investigation of Judaism since the Enlightenment emphasizing historical, intellectual and religious development. Pivotal movements (e.g., Hasidism, Reform, Historical, Conservative Judaism, Modern Orthodoxy, Zionist movement) and historical events (e.g., the American and French Revolutions, Tanzt, oppression, the Holocaust, and the establishment of the State of Israel) will be analyzed for their ongoing impact. Prereq: Nine hours in Religion or permission of instructor.

430/830M Existentialism and Religious Thought (3) A study of existentialism in its theistic (e.g., Kierkegaard, Buber), and antitheistic (e.g., Sartre) forms and its impact on recent Jewish and Christian thought.

890Q Readings in Religion (3) An individually organized program of readings pertinent to one or more topics subordinate to the heading of religions or varieties of religious belief. One of a member of the graduate faculty. May be repeated for credit. Prereq: Graduate standing, permission of the instructor, and no incomplete.

Physics

301/801M Elements of Electronics (3) The background of theory, operation, and practices of electronic devices and circuits particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits involved. Prereq: Calculus and Physics 112 or 212. 882L, 32L, 32L, 32L.

131 Modern Developments in Physics (1880-1950) (3) A modern physics course for science teachers at the secondary level. Concepts rather than mathematical rigor is stressed. Topics include spectroscopy, electronic structure, nuclear structure, basic quantum concepts of matter. Primarily historical; calculational techniques are not included. Students will not have an equivalent modern physics course within the past ten years.

186 Current Topics in Science (1-3) The subject matter of this course will generally not be presented in a standard physics course and may be of an interdisciplinary nature. The specific topics and prerequisites will be listed in the schedule. Prereq: Consent of instructor.

375/875 Electricity and Magnetism I (3) An advanced discussion of electrostatics and magnetism as well as a c. theory. Prereq: Calculus, Physics 325, or permission.

376/876 Electricity and Magnetism II (3) A course in electromagnetics. Topics include Maxwell's equations and their methods for solution, boundary conditions, energy, mass, momentum, and transformations of the fields. Prereq: Physics 375.

385 Thermodynamics and Statistical Mechanics (3) The topics of thermodynamics include various equations of state, first and second laws and states of matter. Statistical mechanics, ergodicity, entropy, and development of materials in the solid state as concerns energy levels, wave mechanics, optical and electrical phenomena. Prereq: Calculus and Physics 325 or permission. Prereq: 384, 384.

807/870M The Special Theory of Relativity (3) This course includes the general historical background of the theory, its important experimental background, the transformation, covariant formulation, applications to electromagnetism and mechanics and philosophical implications of special relativity including relationship to the quantum theory. Prereq: Calculus and Physics 112 or 212.

412/812M Atomic and Molecular Physics (3) This course consists of application of quantum mechanics to atomic and molecular physics. Topics include the Schrödinger theory, solutions of square well and simple harmonic oscillators, photoelectric effects, ionization potentials, and barriers, one electron atoms, atomic spectra, fine structure, orbit angular momentum, selection rules, magnetic effects, ion and coherent bonding, molecular spectra, and the Raman effect. Prereq: Physics: Calculus II or III and Physics 325 or the equivalent.

414/814M Nuclear Physics (3) Methodology and principles of nuclear science, nuclear structure, artificial and natural radioactivity, isotopes, tracers, techniques, radiation hazard, reactor operation, and nuclear theory. Prereq: 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 of stellar atmospheres; interstellar matter and gaseous nebulae; structure and origin of the universe. Prereq: 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 wave mechanics and the correspondence principles of Schrödinger's wave mechanics and Heisenberg's matrix mechanics. Using these techniques the following topics are discussed: the Schrödinger wave equation, wave potentials, harmonic oscillator, angular momentum, hydrogen atom, tunneling, the idea of independent perturbation theory and molecular bonding. Prereq: For 855M, calculus, Physics 325, or permission of the instructor.

495-496/895M-896M Problems in Physics (Each 1-3) Individual laboratory and/or library work in some field of energy, introduction to nonparametric statistical analysis. Prereq: General Physics and permission of instructor. For 495: 495 and permission of instructor.

Political Science

403/803M The Presidency (3) The rise of the institution from Washington's time to the present and prestige it holds and how the presi
dent uses this power and prestige. Prereq: For 404, Political Science 110 and junior standing.

404/804M The Legislative Process (3) An in-depth study of the legislative process of the Congress and state legislatures. The major emphasis is on legislation in Congress and behavior. Prereq: For 404, Political Science 110 and junior standing.

405/805M The Judicial Process (3) This is a course in the administration of justice. It examines the federal and state courts, the powers of judges, judicial selection, the bar, and the reform movements in the most basic of all of man's objectives, the pursuit of the innocent. Prereq: For 405, Political Science 110 and junior standing.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
<th>101</th>
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<tbody>
<tr>
<td><strong>427/827M</strong> Animal Behavior</td>
<td>(3) Behavior of diverse animals for the understanding of the relationships between nervous system and behavior manifestated by the organism, as well as the evolution and adaptation of organisms. Prereq. For 427, Psychology 101 or Biol 175 or permission. (Same as Biology 427 and 827M)</td>
</tr>
<tr>
<td><strong>428/828M</strong> Animal Behavior Laboratory</td>
<td>(1) Laboratory and field studies of animal behavior with an ethological emphasis. Prereq. For 428, Psychology 101 or permission. (Same as Biology 427/827M) Prereq. For 428, Psychology 427 or concurrent enrollment.</td>
</tr>
<tr>
<td><strong>431/831M</strong> Psychological and Educational Testing</td>
<td>(3) Theories of standardized tests. Emphasis on the use of psychological and educational tests. Prereq. Psychology 101 or 251 or 252.</td>
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<tr>
<td><strong>433/833M</strong> Individual Differences</td>
<td>(3) A critical study of experimental and statistical investigations of the influence of age, ancestry, sex, physical traits, and environment in cause of individual differences in mental traits. Prereq. For 433, Psychology 101 and Psychology 21 or equivalent.</td>
</tr>
<tr>
<td><strong>434/834M</strong> Psychoanalytic Psychology</td>
<td>(3) An introduction to Freud, psychoanalytic theories, and current theories of psychoanalytic psychology. Readings are emphasized. Prereq. None.</td>
</tr>
<tr>
<td><strong>435/835M</strong> Psychopathology</td>
<td>(3) A critical discussion of the psychological, biological, and psychological-behavioral factors associated with abnormal behavior. Prereq. For 435, Psychology 101 or 213 or equivalent and Psychology 431 or 445/845M.</td>
</tr>
<tr>
<td><strong>436/836M</strong> Dic tionary</td>
<td>(3) A basic study of the principles, design and intended operation of the American constitutional system with special emphasis on ratification debates. Stress laid on Federalist Articles of Confederation, Constitutional Convention, ratification debates, stress laid on Federalist Paper 10 and ratification issues. Prereq. For 436, junior standing.</td>
</tr>
<tr>
<td><strong>437/837M</strong> Constitutional Law</td>
<td>(3) An analysis of the processes of public opinion and political behavior intended to clarify the political, economic, and social consequences of these processes for American constitutional and foreign policy. Emphasis will be placed on the potential for public opinion to influence government and public policy. Prereq. For 437, junior standing.</td>
</tr>
<tr>
<td><strong>445/845M</strong> Communism</td>
<td>(3) An analysis of the processes of public opinion and political behavior intended to clarify the political, economic, and social consequences of these processes for American constitutional and foreign policy. Emphasis will be placed on the potential for public opinion to influence government and public policy. Prereq. For 437, junior standing.</td>
</tr>
<tr>
<td><strong>448/848 M</strong> Abnormal Psychology</td>
<td>(3) Theories and research studies on behavior disorders. Emphasis on the structure and function of the American political system with emphasis on the political science department. The research by the student. Prereq. Psychology 431 or 445/845M.</td>
</tr>
<tr>
<td><strong>450/850M</strong> Government and Politics of Great Brit­ ain</td>
<td>(3) An examination of the process of public opinion and political behavior intended to clarify the political, economic, and social consequences of these processes for American constitutional and foreign policy. Emphasis will be placed on the potential for public opinion to influence government and public policy. Prereq. For 437, junior standing.</td>
</tr>
<tr>
<td><strong>452/852M</strong> Seminar on the Metropolitan Community</td>
<td>(3) A critical examination of the process of public opinion and political behavior intended to clarify the political, economic, and social consequences of these processes for American constitutional and foreign policy. Emphasis will be placed on the potential for public opinion to influence government and public policy. Prereq. For 437, junior standing.</td>
</tr>
<tr>
<td><strong>455/855M</strong> Psychology and Biology</td>
<td>(3) A comprehensive study of political science and public policy responses to these problems. Prereq. Graduation standing or permission of the instructor.</td>
</tr>
<tr>
<td><strong>457/857M</strong> Interdisciplinary Seminar</td>
<td>(3) A cross disciplinary analysis of the principles, design and intended operation of the American constitutional system with special emphasis on ratification debates. Stress laid on Federalist Articles of Confederation, Constitutional Convention, ratification debates, stress laid on Federalist Paper 10 and ratification issues. Prereq. For 436, junior standing.</td>
</tr>
<tr>
<td><strong>461/861M</strong> Social Psychology</td>
<td>(3) A comprehensive study of political science and public policy responses to these problems. Prereq. Graduation standing or permission of the instructor.</td>
</tr>
<tr>
<td><strong>483/883M</strong> History of Psychology</td>
<td>(3) A study of the origins, development, and nature of psychology and its contemporary relations to external events and environmental emphasis on the period between 1875. Prereq. For 401, junior standing.</td>
</tr>
<tr>
<td><strong>484/884M</strong> Animal Behavior Laboratory</td>
<td>(1) Laboratory and field studies of animal behavior with an ethological emphasis. Prereq. For 428, Psychology 101 or permission. (Same as Biology 427/827M) Prereq. For 428, Psychology 427 or concurrent enrollment.</td>
</tr>
<tr>
<td><strong>487/887M</strong> Jungian Psychology</td>
<td>(3) The study of J. Jung's analytical psychology, and related theories of the unconscious. Prereq. Psychology 101 or 213 or equivalent and Psychology 431 or 445/845M.</td>
</tr>
<tr>
<td><strong>488/888M</strong> Personality</td>
<td>(3) A critical study of the theory and research methods used in the study of personality. Emphasis on the current research in personality and social psychology. Prereq. Psychology 213 or equivalent and Psychology 431 or 445/845M.</td>
</tr>
<tr>
<td><strong>492/892M</strong> Graduate Student Research</td>
<td>(3) An examination of the process of public opinion and political behavior intended to clarify the political, economic, and social consequences of these processes for American constitutional and foreign policy. Emphasis will be placed on the potential for public opinion to influence government and public policy. Prereq. For 437, junior standing.</td>
</tr>
</tbody>
</table>
Studies such as these have been conducted to determine and address social issues and behaviors that could be a result of social or cultural maladjustments, relationships of parents, professionals, and others with individuals with retardation or superiority, speech disorders, emotional or mental illness, or other problems that may require special education. This course is intended to help advanced graduate students who have completed related coursework. Students should have prior experience and knowledge of human development, family, and social psychology, as well as research-related experiences and training.

805V Problems in Psychology (1-6) A faculty supervised experience in which students will engage in a library search and critical analysis of current research issues in psychology. Prereq: Permission of instructor.

895V Practicum in Developmental Psychology (1-6) A faculty supervised experience that relates directly to a specific area of interest in developmental psychology, and provides the student with an understanding of and experience in the field of psychology. Prereq: Permission of instructor.

921 Proseminar: Multiple Regression and Factor Analysis (3) A comprehensive and applied course in the field of multiple regression and factor analysis. Prereq: Psychology 920 and 923 or permission of instructor.

922 Proseminar: Analysis of Variance (3) A comprehensive and applied course in the field of analysis of variance. Prereq: Psychology 920 and 923 or permission of instructor.

923 Proseminar: Research Methods and Theory (3) A comprehensive and applied course in the field of research methods and theory. Prereq: Psychology 920 and 923 or permission of instructor.

956 Pracicum in Clinical Psychology for School Psychologists (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of clinical psychology. Prereq: Permission of instructor.

957V Clinical Child Psychology for School Psychologists (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of clinical psychology. Prereq: Permission of instructor.

958V Practicum in Research Methods (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of research methods. Prereq: Permission of instructor.

959V Practicum in Clinical Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of clinical psychology. Prereq: Permission of instructor.

960V Practicum in Social Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of social psychology. Prereq: Permission of instructor.

961V Practicum in Cognitive Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of cognitive psychology. Prereq: Permission of instructor.

962V Practicum in Comparative Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of comparative psychology. Prereq: Permission of instructor.

963V Practicum in Developmental Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of developmental psychology. Prereq: Permission of instructor.

964V Practicum in Health Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of health psychology. Prereq: Permission of instructor.

965V Practicum in Personality Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of personality psychology. Prereq: Permission of instructor.

966V Practicum in Social Cognition (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of social cognition. Prereq: Permission of instructor.

967V Practicum in Social Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of social psychology. Prereq: Permission of instructor.

968V Practicum in Social Cognition (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of social cognition. Prereq: Permission of instructor.

969V Practicum in Personality Psychology (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of personality psychology. Prereq: Permission of instructor.

970V Practicum in Social Cognition (1-6) A faculty supervised experience which provides the student with an understanding of and experience in the field of social cognition. Prereq: Permission of instructor.
957 Applied Behavior Analysis (3) A comprehensive introduction to experimental methodology in applied behavior analysis. Topics covered include observational recording systems, reliability and validity of measurement, behavioral analysis of classroom behavior with emphasis on data collection and statistical techniques that are applicable to industrial psychology research. Prereq: Admission into industrial psychology graduate program.

956 Criterions Development and Performance Assessment (3) An in-depth examination of the fundamentals of personnel psychology including selection and development in organizational performance measurement and appraisal in organizations. Participation in the study of the design, analysis, and interpretation of selection and the implementation of performance management. Prereq: Permission of psychology graduate student in psychology who is enrolled in a program of study leading to certification in psychology. Prereq: Psychology 327 or equivalent, and permission.

957L Laboratory in Applied Behavior Analysis (3-6 hrs) Laboratory work coordinated with Psychology 832/832V. Laboratory work is designed to emphasize through group and individual projects in organizational settings. Prereq: Psychology 832 or Psychology 832V (Psychology 832V may be taken concurrently).

957P Personnel Selection (3) An exploration of current theory and practice in personnel selection. Prereq: Permission of the instructor. Prereq: Psychology 327 or equivalent, and permission.

956P Practicum in Experimental Social Behavior (1-3) Faculty supervised experience in industry or business designed to bridge the gap between classroom learning and the real world. Prereq: Permission of psychology graduate student in psychology who is enrolled in a program of study leading to certification in psychology. Prereq: Psychology 327 or equivalent, and permission.

960 Alcoholism and the Family A review of the theoretical and research literature on alcoholism within a family context. The specific focus for this course is those areas of alcoholism which relate to child development and family dysfunction. Such issues include the complex aspects of alcoholism, effects of pregnancy, socialization practices in an alcoholic family, and the process of alcoholic adjustment. Prereq: Economics 217 and permission. Prereq: Economics 217, and permission.

951 Industrial Motivation & Morale (3) A course in the application of theory and research in the areas of work motivation, work behavior, and job satisfaction. Emphasis will be placed on practical applications of the theoretical aspects of motivation and morale in the work environment. Prereq: Permission of the instructor. Prereq: Permission of the instructor.

986 Industrial Training and Development (3) An analysis of the theoretical and practical problems of conducting training programs in industry. Topics include design, implementation, and evaluation of training programs. Prereq: Permission of the instructor. Prereq: Permission of the instructor.

986S Seminar in Organizational Behavior (3) A study of the various approaches to developing understanding of organizational behavior and the relationship of these approaches to the design and functioning of organizational systems. Prereq: Permission of graduate adviser.

982V Seminar: Introduction to Public Organizations (1) A study of public organizations and the processes of government. Topics covered include general policy processes and, to a lesser extent, local control of policy topics. Prereq: Admission to the seminar.

984 Seminar in Organizational Development (3) A study of the theory and practice of organizational development in public agencies. The course will be designed to emphasize in-depth participation of interpersonal skills in dealing with organizational problems is stressed. Prereq: Permission of graduate adviser.

984S Seminar in Organization Development and Management Analysis in Public Agencies (3) A study of the theory and method related to analyses of problems of organizational development and management and of public agencies. The course includes problem evaluation, field study methods, design of improved methods and measures of impact. Prereq: Permission of graduate adviser.

840 Seminar in Personnel Administration (3) This course focuses on the principal considerations affecting the implementation of personnel policies by government agencies. Topics include job analysis, selection, performance evaluation, compensation, and training. Prereq: Permission of graduate adviser.

848 Seminar in Industrial Relations (3) A review of the principal elements of the role and character of legal processes in government administration, including delegation of powers, legal forms of administrative action, liability of government units and officers and agencies, and administrative action. Prereq: Permission of graduate adviser.

850 Seminar in Administration of Programs (3) A review of the principles and techniques of program development, implementation, and evaluation, with concentration on special problems in public administration and related aspects of social and political science. Prereq: Permission of graduate adviser.

850V Seminar in Administration of Programs (3) A seminar in the development, acquisition and administration of grants and contracts. The course will include legal considerations, planning and strategy for applicant and awarding agencies, problems related to administration and evaluation, and the like. Prereq: Graduate standing with P.A. major, or permission of the instructor.

834V Urban Seminar in Metropolitan Planning and Development (3) An overview of the present status of planning in major metropolitan areas, with special emphasis on structure of planning departments, comprehensive plans, and problems of financing. Prereq: P.A. 317, course in American government, or permission of the instructor. Prereq: P.A. 317, and permission of the instructor.

805V Seminar in The Research Methods of Political Science and Public Administration (3) A critical examination of the methods of data collection and analysis for political science and public administration. Topics covered (also listed under political science.) Prereq: Permission of graduate adviser.

804V Seminar in Public Administration (3) A seminar in the development, acquisition and administration of grants and contracts. The course will include legal considerations, planning and strategy for applicant and awarding agencies, problems related to administration and evaluation, and the like. Prereq: Graduate standing with P.A. major, or permission of the instructor.

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School of Engineering Technology

Industrial Technology

The (811M) Contemporary Trends in Industrial Education for The World of Construction (3) designed to provide the student experience in practical construction work in an industrial setting, with major emphasis placed upon the world of construction curriculum. Analysis of basic construction operations and their role in the construction environment will be reviewed. Students will be given practical experience in selected hardware stores. Prereq: SW 800V, SW 810V, plus 825V prior or concurrent with.

Micro Practice Courses

820V Micro Intervention I (3) to provide the student with knowledge of theories and techniques in micro practice. Prereq: SW 810V, or equivalent.

821V Micro Intervention II (3) to provide the student with knowledge of theories and practice in micro practice. Prereq: SW 810V, or equivalent.

825V The Family as the Client (3) for students who is seeking substantial specialized knowledge and the leadership and helping functions of the supervisor in both educational and administrative roles. Prereq: SW 820V, or permission.

841V Advanced Social Work Practicum I (3) to provide individualized professional experience in social or macro social work practice. Prereq: SW 810V, or concurrent with, or either 830V/835V/845V prior or concurrent with.

842V Advanced Social Work Practicum II (3) to provide individualized professional experience in social or macro social work practice. Prereq: SW 841V.}

Social Work

Foundation Courses

800V Human Behavior and the Social Environment (4) A foundation course providing basic knowledge of the contributions of the biological, behavioral and social sciences to understanding of human functioning in transaction with social structure. Prereq: Graduate Social Work student or permission of instructor.

805V Social Welfare Policy, Services & Analysis (4) An examination of social policy development and the functioning of specific delivery systems which work together with beginning policy analysis embodying an analysis of social science, legal, and psychological contexts. Academic background in economics, social psychology, and U.S. history is highly recommended. Prereq: Graduate Social Work student or permission of instructor.

817V Social Work Practicum I (3) This course is designed to supervise individual learning experiences, in selected social work agencies. It is designed to introduce students to beginning micro and macro social work practice. Prereq: SW 810V, concurrent with or subsequent to Social Work Practicum I.

Micro Practice Courses

820V Micro Intervention I (3) to provide the student with knowledge of theories and techniques in micro practice. Prereq: SW 810V, or equivalent.

821V Micro Intervention II (3) to provide the student with knowledge of theories and practice in micro practice. Prereq: SW 810V, or equivalent.

852V Social Work Practicum II (3) This course is designed to give students in-depth knowledge of theories and practice in techniques used in supervising paid or volunteer staff. Prereq: SW 810V, or equivalents, 820V prior to or concurrent with.

870V Alcohol Abuse: Comprehensive Treatment (3) An analysis of the treatment of alcoholism from a social work perspective. (PA requirement) Prereq: SW 814V, SW 817V, or equivalents, 820V prior to or concurrent with.

871V Social Work Practicum II (3) This course is designed to give students in-depth knowledge of theories and practice in techniques used in supervising paid or volunteer staff. Prereq: SW 810V, or equivalents, 820V prior to or concurrent with.

Micro Practice Courses

820V Micro Intervention I (3) to provide the student with knowledge of theories and techniques in micro practice. Prereq: SW 810V, or equivalent.

821V Micro Intervention II (3) to provide the student with knowledge of theories and practice in micro practice. Prereq: SW 810V, or equivalent.

852V Social Work Practicum II (3) This course is designed to give students in-depth knowledge of theories and practice in techniques used in supervising paid or volunteer staff. Prereq: SW 810V, or equivalents, 820V prior to or concurrent with.

The course is intended for social work seniors and-or equivalent, statistics or permission of instructor.

The course is placed on the utilization of research in society, technology, war and world view as parts of an integrated whole, a way of life in human society. Illustrations will be drawn from a number of societies, anthropological theories and methods as they may be repoted with different course outlines. Prereq: Senior or graduate standing or permission of the instructor.

Sociology Research Courses

420/820M Urban Anthropology (3) The course is intended for students interested in a sociological point of view. Included will be an overview of its history and the methods by which cities are formed and grew as well as the internal interaction and processes within the city. The course is intended for students interested in the sociological techniques of urban evaluation are applied to population problems. Prereq: For 402, 9 hours of sociology, including Sociology 101. For 802M, permission of the instructor.

410/810M The Community (3) A basic course in contemporary sociology. Prereq: completed sociological theory and the course is intended for students interested in the sociological techniques of urban evaluation are applied to population problems. Prereq: For 402, 9 hours of sociology, including Sociology 101. For 802M, permission of the instructor.

411/811M Applied Social Gerontology (3) An introduction to social gerontology with a special emphasis on the aging process, family and social institutions and social participation. Examinations of social institutions and implications. Prereq: Permission of the instructor.

412/812M Urban Geography (3) A geography of the city, history, site, and an overview of the worldwide city. Prereq: For 402, 9 hours of sociology, including Sociology 101. For 812M, permission of the instructor.

413/813M Sociology of Deviant Behavior (3) A theoretical analysis of the relation of deviant behavior and subcultures to community standards of conventional behavior as expressed in law and social practice. Prereq: Sociology 101. For 813M, permission of the instructor.

414/814M Urban Sociology (3) Examines urban theoretical perspectives, urbanization processes, the diversity of metropolitan communities, urban sociology, development of sociology as a science with illustrative materials drawn from the established works of recent decades although backgrounds to these are traced to their ancient and medieval antecedents where applicable. Prereq: Sociology 101 and 12 or 13 hours of sociology. For 814M, permission of the instructor.

415/SJSM American Family Problems (3) A discussion of the family and its problems. An advanced consideration of theory construction and a review of major theoretical integration of contemporary sociological concepts and writers. Prereq: For 472, senior standing and 12 hours of sociology. For 815M, permission of the instructor.

475/875M Social Change (3) A discussion of changes in the social system. Comparative examples from contemporary and historical change. Emphasis is placed on understanding cause and effect and on group behavior, community health, and legal issues. Prereq: For 475, Sociology 101. For 875M, permission of the instructor.

483/883M Seminar in Cross-Cultural Communication (3) A sociological perspective on the role of language and social variability. Prereq: Sociology 101 and 12 or 13 hours of sociology. For 883M, permission of the instructor.

485/885M Sociology of Religion (3) Analysis of religious values from a sociological and social-psychological perspective, the study of religious beliefs, sociological and empirical materials. The class is designed as an introduction to the study of religion, and the first in a two-step sequence, undergraduate and graduate. Prereq:
For 485, Sociology 101 or permission of the instructor. For 883, permission of the instructor.

899/899M Independent Study (1-3) Guided reading in special topics under the supervision of a faculty member. For 899, course must be repeated in a student's program without implying duplication. Prereq: Permission.

811V General Seminar in Sociology (3) This seminar, required of departmental graduate students, includes a general orientation to the profession, its leading figures, publications, organizations, and general research areas. It emphasizes critical discussion of issues in the discipline and selected substantive problems of sociology. Prereq: Graduate standing and permission of the instructor.

801V Seminar in Social Psychology (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in social psychology selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission of the instructor.

812V Seminar in Social Gerontology (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociological gerontology selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

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810V Seminar in Applications of Sociology (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociology selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

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810V Seminar in Applications of Sociology (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociology selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.

811V General Seminar in Sociology (3) This seminar, required of departmental graduate students, includes a general orientation to the profession, its leading figures, publications, organizations, and general research areas. It emphasizes critical discussion of issues in the discipline and selected substantive problems of sociology. Prereq: Graduate standing and permission of the instructor.

812V Seminar in Social Gerontology (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociological gerontology selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission of the instructor.

810V Seminar in Applications of Sociology (3-6) Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in sociology selected by the instructor. As seminar topics change, this course may be repeated in a student's program without implying duplication. Prereq: Permission.
dution of the Education of the Gifted or permission.

804V Individual Factors/Stories that Affect Teaching Gifted Learning (1) The course involves the study of the various factors/stories of the course discusses the educational, extra-curricular, and personal values of the student. It is designed to acquaint students with the basic philosophy underlying the education of the gifted and the recognition of their needs. This course is primarily intended for K-12 educators who are not formally trained in gifted education.

812V Improvisation of Instruction in Elementary Science (2) This course is designed for graduate students in education who have completed the elementary science course and are interested in developing and identifying various types of gifted education programs, and the recognition of their needs. This course is primarily intended for K-12 educators who are not formally trained in gifted education.

814V Improvement of Instruction in Elementary Mathematics (3) An examination of the philosophy, content, context, and methods of modern mathematics education. The uses and needs of the students enrolled during the semester are given special consideration.

822V Improvement of Instruction in Social Studies (1) This course is designed to acquaint graduate students with the basic philosophy underlying the education of the gifted.

824V Introduction to Curriculum Planning Elementary (3) A study of the history, philosophy, and current developments in the elementary curriculum with an emphasis on various subject matter areas of the elementary school.

825M Cataloging and Classification I (3) An introduction to the basic cataloging procedures prescribed by the American Library Association and the Library of Congress. The course also involves working with the Dewey Decimal Classification system and MARC format used by OCLC. Prereq: Admission to Graduate College.

826M Selection and Evaluation of Educational Materials (3) This course is designed for graduate students in education who have completed at least one graduate reading course and are interested in working with adult illiterate students. This course will develop appropriate testing instrument. Prereq: permission of instructor.

831M Reference and Advanced Subject Bibliography (1-6) This practicum is designed to acquaint graduate students with the basic philosophy underlying the education of the gifted. This course is primarily intended for K-12 educators who are not formally trained in gifted education.

832V Improvement of Instruction in Mathematics (3) This course is designed to assist teachers in planning to improve their teaching of mathematics in all subject areas of the educational environment. The elementary school program and techniques for overcoming such obstacles are discussed.

865M Seminar in Organization and Administration of Reading Programs (3) A seminar is limited to individuals who have completed at least one graduate reading course (or equivalent) and who are interested in the teaching of reading. This course is designed to acquaint graduate students with the basic philosophy underlying the education of the gifted.

871V Advanced Practicum in Elementary Education (3) This course will examine the reference function of libraries. It is designed to acquaint students with the basic philosophy underlying the education of the gifted.

872M Reference and Advanced Subject Bibliography (1-6) This course is designed for graduate students interested in working with adult illiterate students. This course will develop appropriate testing instrument. Prereq: permission of instructor.

875M Cataloging and Classification I (3) This course is designed for graduate students in education who have completed at least one graduate reading course and are interested in working with adult illiterate students. This course will develop appropriate testing instrument. Prereq: permission of instructor.

876M Selection and Evaluation of Educational Materials (3) This course is designed for graduate students in education who have completed at least one graduate reading course and are interested in working with adult illiterate students. This course will develop appropriate testing instrument. Prereq: permission of instructor.

880V Workshop: Newspaper in the Classroom (3) A course is designed to promote student teaching through the development of sound criteria for use in selecting appropriate learning materials for children from three to eight years of age. (F.S.S)

888V Instructional and Corrective Instruction (3) A course is designed to promote student teaching through the development of sound criteria for use in selecting appropriate learning materials for children from three to eight years of age. (F.S.S)

899 Thesis (1-6) Independent research project required of all students taking master of arts degree. See major adviser.

Library Sciences

817M Reference and Bibliography (3) This course is designed to acquaint graduate students with the basic philosophy underlying the education of the gifted.

818M Improving Instruction in Language Arts (3) This course is designed to acquaint graduate students with the basic philosophy underlying the education of the gifted.

820V Improving Instruction in Elementary Mathemat-ics (3) An examination of the philosophy, content, context, and methods of modern mathematics education. The uses and needs of the students enrolled during the semester are given special consideration.

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analysis of curriculum practices and the foremost agencies providing programs. 4.82
402/882M Literature for The Adolescent (3) This course is designed to assist library media specialists, counselors, and educators of the humanities and other classroom teachers to gain information about and evaluate selected literature and guidance and counseling materials. This course will include correspondence with foreign students and the schools of international students assigned areas. Prereq: Graduate standing.

3.80V Emerging School Curriculum (3) Designed to develop understanding of the nature and trends in secondary school curriculum development. Emphasis is placed upon new curriculum developments and contemporary teaching strategies.

3.80V Seminar in Business Education (3) Designed to develop a deeper and broader understanding of secondary school education; to identify and define business education and to examine its past, present, and future role in the total education process within the school system.

3.83V Seminar in Mathematics Education (3) A graduate seminar in K-12 mathematics education emphasizing recent curricular developments, curriculum planning and evaluation, research, mathematics education. Prereq: Graduate standing.

3.85V Improvement of Instruction of Secondary School Science (3) This course is designed for graduate students who are or desire to become secondary science teachers. Its focus will be upon recent developments in secondary science; the methodologies, materials, philosophy, and emphasis instruction which are characteristic of these programs.

3.86V Science Education Seminar (3) A graduate seminar in K-12 science education emphasizing research, newly developed science curricula, curriculum improvement and the whole range of opportunities available for the improvement of science instruction.

3.87V Trends and Teaching Strategies in Science Education (3) This course is designed for the graduate student in the secondary science program emphasizing the science education curriculum and its role in the science education of the secondary student. This course will describe and analyze past and present trends in science education including curricula, teaching-learning strategies, instructional materials, literature and rhetoric for instructional improvement in the secondary school. This course will stress the development, facilitation and barriers of the instructional improvement which are characteristic of these programs.

3.88V The Metropolis - As a Cultural Institution (3) This course on the metropolitan community in American culture. Emphasis will be upon political and economic factors which have played a dominant role in the development of the metropolitan community in the United States. Emphasis will be placed upon the political and economic factors which have played a dominant role in the development of the metropolitan community in the United States.

4.80V Research Project (3) Individual or group research projects as specified problems in science education. Typical projects may include surveys, school finance, transportation, school building construction, curriculum supervision, curriculum evaluation, curriculum and pupil personnel.

4.80V Teaching-Community and Junior College (3) The practical experience is intended for graduate students who are or desire to become teachers or supervisors of secondary or higher education in the United States. Its major focus is on the problems and issues confronting post-secondary/higher education today.

4.80V Emerging School Curriculum - I (3) A series of intensive courses especially for teachers in service scheduled as regular seminars, or workshops, in which the new materials and ideas are presented.

5.80V Research Project (3) Individual or group research projects as specified problems in science education. Typical projects may include surveys, school finance, transportation, school building construction, curriculum supervision, curriculum evaluation, curriculum and pupil personnel.

5.80V Teaching-Community and Junior College (3) The practical experience is intended for graduate students who are or desire to become teachers or supervisors of secondary or higher education in the United States. Its major focus is on the problems and issues confronting post-secondary/higher education today.

5.80V Improvement of Instruction of Secondary School Mathematics (3) This course is designed for those students who wish to extend their knowledge and understanding of the secondary school mathematics curriculum and their skill in employing instructional techniques. Emphasis is placed upon new curriculum developments and contemporary teaching strategies.

5.80V Seminar in Business Education (3) Designed to develop a deeper and broader understanding of secondary school education; to identify and define business education and to examine its past, present, and future role in the total education process within the school system.

5.80V Seminar in Mathematics Education (3) A graduate seminar in K-12 mathematics education emphasizing recent curricular developments, curriculum planning and evaluation, research, mathematics education. Prereq: Graduate standing.

5.87V Improvement of Instruction of Secondary School Science (3) This course is designed for graduate students who are or desire to become secondary science teachers. Its focus will be upon recent developments in secondary science; the methodologies, materials, philosophy, and emphasis instruction which are characteristic of these programs.

5.86V Science Education Seminar (3) A graduate seminar in K-12 science education emphasizing research, newly developed science curricula, curriculum improvement and the whole range of opportunities available for the improvement of science instruction.

5.88V The Metropolis - As a Cultural Institution (3) This course on the metropolitan community in American culture. Emphasis will be upon political and economic factors which have played a dominant role in the development of the metropolitan community in the United States.

5.88V Race, Ethnicity, and American Urban Culture (3) This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and American culture.

5.88V-584V Interdisciplinary Seminar On The Urban Community (3-6) An interdisciplinary course on the metropolitan community in which urban problems are put in a broad interdisciplinary focus. (Also listed under geography, political science, and sociology.)
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