1979

Graduate Academic Catalog (1979-1980)

University of Nebraska at Omaha

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University of Nebraska at Omaha

Graduate Catalog 1979-1980
The University of Nebraska at Omaha Graduate Catalog is published by the Department of University Relations. Robert E. Bernier, assistant director; Lynn Kahn, publication editor; Cindy Wofford and Carol Tate, editorial assistants.

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### Course Descriptions

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### ACADEMIC CALENDAR

#### First Semester 1979-80

- **July 13**: Last day for submitting credentials for admission to Graduate Studies for the First Semester 79-80.
- **July 16-Aug. 31**: Orientation.
- **July 31**: Last day for submitting credentials for admission to an undergraduate college for the First Semester 79-80.
- **Aug. 22, 23-24**: First semester begins at 7:00 a.m. both day and evening classes.
- **Aug. 27**: Change of class schedules.
- **Aug. 31**: Last day until 4:00 p.m. to: Add a course to student's schedule; Add an "audit" course; Change to "CR/NC" grade in a course.
- **Sept. 3**: Vacation: no classes.
- **Sept. 4**: Last day for filing applications for degrees to be conferred in December.
- **Oct. 8**: Last day for filing applications for degrees to be conferred in February.
- **Oct. 19**: Due: Mid-term (8th week) report from faculty of grades under C for all undergraduates.
- **Nov. 9**: Last day until 4:00 p.m. to: Drop a course with a grade of "W"; Change a course to "audit" credit; Change from "CR/NC" to grade registration in a course.
- **Nov. 21-25**: Thanksgiving vacation; no classes.
- **Nov. 22-23**: University closed.
- **Nov. 26**: Classes resume at 7:00 a.m.
- **Dec. 14**: Last day for submitting credentials for admission to Graduate Studies for the Second Semester 79-80.
- **Dec. 15-21**: Final exams.
- **Dec. 22**: Commencement.
- **Dec. 25-26**: Christmas Holiday; University closed.
- **Dec. 27**: Grades due in Registrar's Office by 12:00 noon.
- **Dec 27-Jan. 11**: Special course offerings.

#### Second Semester 1979-80

- **Jan. 1**: Holiday; University closed.
- **Jan. 2**: Last day for submitting credentials for admission in undergraduate college for the Second Semester 1979-80.
- **Jan. 2-9**: Orientation.
- **Jan. 9-12**: Registration (Fieldhouse)
- **Jan. 14**: Second Semester begins at 7:00 a.m. both day and evening classes.
- **Jan. 14-18**: Change of class schedules.
- **Jan. 18**: Last day until 4:00 p.m. to: Add a course to student's schedule; Add an "audit" course; Change to "CR/NC" grade in a course.
- **March 7**: 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 28**: Last day until 4:00 p.m. to: Drop a course with a grade of "W"; Change a course to "audit" credit; Change from "CR/NC" to grade registration in a course.
- **March 31-Apr. 5**: Spring vacation; no classes.
- **April 7**: Classes resume 7:00 a.m.
- **April 14**: Last day for submitting credentials for admission to Graduate Studies for the Evening Summer Session 79-80.
- **April 15**: Honors Day.
- **April 24**: Status report for all prospective graduating students due in Registrar's Office by 12:00 noon.
- **May 2**: Last day of classes.
- **May 3-9**: Finals.
- **May 10**: Commencement.
- **May 12**: Last day for filing credentials for admission to Graduate Studies for the First Summer Session 1980.
- **May 14**: Grades due in Registrar's Office by 12:00 noon.
- **May 20**: Memorial Day; University closed.

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Cover photo by Tim Fitzgerald.
### Summer Session 1980

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>June 9-11</td>
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<td>June 9-11</td>
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<tr>
<td>June 12</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Second Summer Session 1980.</td>
</tr>
<tr>
<td>July 4</td>
<td>Holiday; University closed</td>
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<tr>
<td>July 7</td>
<td>Last day for filing applications for degrees to be conferred August 16, 1980.</td>
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<tr>
<td>July 12</td>
<td>Last day for submitting credentials for admission to Graduate Studies for the Fall Semester 80-81.</td>
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<tr>
<td>July 14-Aug 15</td>
<td>Second Summer Session</td>
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<td>July 31</td>
<td>Last day for submitting credentials for admission to an undergraduate college for the Fall Semester 80-81.</td>
</tr>
<tr>
<td>Aug 1</td>
<td>Status report for all prospective graduating students due in Registrar's Office by 12:00 noon.</td>
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<tr>
<td>Aug 16</td>
<td>Summer Commencement</td>
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<tr>
<td>Aug 20</td>
<td>Final grades due in Registrar's Office by 12:00 noon.</td>
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*The above dates are subject to change.*

### DEPARTMENTS OFFERING GRADUATE INSTRUCTION

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

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<th>DEPARTMENT OR AREA</th>
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*English as a second language.

**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 Measurements Department, UN-L."
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 1969. 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 campuses Graduate Colleges become 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, practica, research and special problems courses, and the supervision of these or special projects. Thus the Graduate Faculty at UNO promotes the spirit of free investigation in the various disciplines and, at the same time, serve to unite the various branches of the University in advancing human knowledge and providing intelligent, capable leadership for society.

The UNO Graduate Council consists of fifteen members from among the Graduate Faculty and students, the Council serves in an advisory capacity to the Dean for Graduate Studies and Research and is responsible for planning and policy development, review of courses and programs, and faculty and student affairs.

ACCREDITED STANDING

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

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

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION POLICY STATEMENT

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

The University of Nebraska at Omaha declares and reaffirms a policy of administering all of its educational programs and related supporting services and benefits in a manner which does not discriminate against 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.
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 a hearing to challenge such records on the grounds that they are inaccurate, misleading, or otherwise inappropriate. Also the institution must obtain the written consent of students before releasing identifiable data about students from records to other than a special list of exceptions, and that students must be notified of these rights.

An explanation of this Act and its application at UNO is available to all students, copies of which may be obtained at the Office of Student Activities, the University Information Center, the 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 preadmission inquiries regarding handicapped conditions. However, if you are handicapped and wish to receive information concerning available services, please notify us following your admission to UNO.

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

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

Option II. A 30-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 more depth in mathematics combined with a core of relevant professional courses in education.

Master of Business Administration Degree

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

Master of Public Administration Degree

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

Master of Social Work

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

Specialist in Education Degree

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

UNIVERSITY REGULATIONS

The University and its various colleges, divisions, and departments reserve the right to change the regulations controlling admission to, instruction in, and graduation from the University or its various divisions. Such regulations are operative whenever the University authorities deem necessary and apply not only to prospective students but also to those currently enrolled in the University.

The University also reserves the right to withdraw courses, to reassign instructors, and to change tuition and fees at any time.
A student who has not taken the GRE prior to application for admission to Graduate Studies but who is judged from other evidence to be capable of graduate study, is assigned provisional status. A final determination of classification will be made after the examination scores are received.

A Graduate Studies applicant already holding a Master's degree in the field in which he or she wishes to pursue further studies may be granted admission to the Graduate Record Examination.

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

The Counseling and Guidance Department requires that all entering students pursue a graduate degree in counseling to take admission examinations within the Graduate Record Examination (see page 35).

**Graduate Management Admission Test (GMAT)**

Applicants for admission to the Master of Business Administration program are required to take the Graduate Management Admission Test (GMAT) before they may be granted temporary admission to the Graduate Record Examination.

**Miller Analogies Test (MAT)**

Graduate students who have been admitted into the Department of Educational Administration and Supervision may take the Miller Analogies Test in lieu of the Graduate Record Examination. Students majoring in Special Education must take the Miller Analogies Test. This test is administered on an individual basis; an appointment to sit for the test may be scheduled through the Counseling and Testing Center.

### CLASSIFICATION OF ADMISSION

All recommendations for any type of admission are subject to the approval of the Dean for Graduate Studies and Research.

**Unconditional** admission to graduate study may be granted to a student who has a Bachelor's degree from a regionally accredited institution, who has earned at least a B average in the undergraduate work in his proposed graduate major and minor, and who presents at least 12 semester hours of undergraduate work that meet specific requirements of the departments in his graduate major and minor. In addition to the specified transcript record, appropriate scores of the Graduate Record Examination, Miller Analogies Test, or the Graduate Management Admissions Test must be supplied to the Dean for Graduate Studies and Research.

**Provisional** admission may be granted to a student who has a Bachelor's degree from a regionally accredited institution but who has not completed all of the undergraduate prerequisite course requirements for admission to graduate study. This provisional status will continue until such time as the student has completed all of the undergraduate prerequisites for 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 Chairman 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 made for reasons of maturity, experience, or other extenuating circumstances under which the student may be deemed capable of high quality graduate study. This provisional admission will not be removed until the student has successfully demonstrated to the satisfaction of the Department and the Dean his ability to pursue graduate study.

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

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

No more than twelve semester hours credit may be earned within the University of Nebraska System while under Provisional Admission status without special approval from the Dean for Graduate Studies and Research.

**Non Degree**

Some students who do not anticipate pursuing a degree program may be admitted to graduate study as non degree students. This classification includes:

1. graduate students taking courses for teacher certification
2. graduate students taking courses for professional growth
3. graduate students taking courses for cultural advancement
4. graduate students taking courses for medical advancement

Applicants in this non-degree category must meet graduate and departmental requirements for admission; each department has the right to establish policies for non-degree students enrolled in classes therein.

Credentials for admission include a completed application blank and one undergraduate transcript. Credit hours accumulated in this category could be counted toward a degree only if (a) the transition from non degree status is accomplished no later than the first opportunity to file candidacy for degree, and (b) the petition for change is accompanied by a departmental recommendation that the specified credit hours count toward the degree. For students desiring to change status, the Request for Change—Graduate Degree Program Form should be used. Under no conditions may Non Degree status be changed to Degree status after the transcripts have been evaluated.

### TEMPORARY ADMISSION

When unexpected circumstances preclude processing applications for Unconditional, Provisional, or Degree status, the Dean for Graduate Studies and Research may issue a Temporary Admission. In these rare cases, the student must have all materials submitted for one of the regular admissions deadlines. A student wishing to take courses for cultural advancement before entering the program must hold a valid certificate or be eligible for such a certificate at the undergraduate level before entering the program. For certification requirements, communicate with the Dean's Office in the College of Education.

### REGISTRATION PROCEDURE

The student is to follow the usual procedure in registering for courses by filling out the proper class cards and other registration blanks and by paying fees at the Business Office. At each registration period the student must secure the signature of the major advisor (and of the Dean for Graduate Studies and Research where registering for more than twelve hours). Students must have been formally admitted to graduate study prior to their first registration.
ADMISSION TO CANDIDACY FOR GRADUATE DEGREE

Admission to graduate study does not admit the student to candidacy for any degree. It is the student's responsibility to make application for candidacy for the degree as soon as qualified to do so. The qualifications are: (1) the successful completion of the Graduate Record Examination, the Miller Analogies Test, or the Graduate Management Admission Test must be on file in the Graduate Office; (2) the student must have three (3) semesters of graduate credit, and (3) a grade average of "B", with no grade lower than "C" on all work taken when this is included in the Plan of Study. Any Incomplete for any course in the student's major field of study or included in the Plan of Study must be removed before submission of the Application for Candidacy. At least one-half of the approved Plan of Study must be completed following the approval of the Application for Admission to Candidacy.

As a rule, no degree can be awarded in the same semester as candidacy for the degree is approved. Exceptions for those cases which have been included previously for one or more courses in which a student's grades may be either written or oral at the discretion of the department concerned. If written, it must be arranged at the convenience of the student or the major and minor adviser. If the oral examination is to be oral, it should be scheduled and completed at this time and the application should be signed by both the major and minor advisers.

The application form and the plan of study should be filed with the major adviser who then secures the necessary signatures. The Graduate Office, after all signatures are secured, provides copies to the major adviser, the minor adviser and the student. Plans of study should be planned with acceptable alternatives included. Once approved, any modification of a plan of study is permissible only upon recommendation of the student's advisor, the minor advisor, the major advisor and the student.

Until a student has been admitted to candidacy for the degree, the graduate work is governed by the rules and regulations as stated in the most recent Graduate Catalog, if he has been in continuous enrollment.

APPLICATION FOR THE DEGREE

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

FINAL COMPREHENSIVE EXAMINATION

A final comprehensive examination is required of all candidates for the Master's degree near the conclusion of their graduate study. For those candidates not writing a thesis, the examination is a written and oral examination for those candidates not writing a thesis. The comprehensive examination may be either written or oral at the discretion of the department concerned. If written, it must be arranged at the convenience of the student or the major and minor adviser. If the oral examination is to be oral, it should be scheduled and completed at this time and the application should be signed by both the major and minor advisers.

The degree Master of Business Administration, the course BA 880 is required in lieu of a final comprehensive examination. If the course work has been of very high quality the minor advisor may suggest to the student's committee that the candidate be excused from the comprehensive examination covering the minor field. This does not prejudice the quality of the minor professor giving a comprehensive, if the professor so desires. The minor comprehensive is given at a date arranged at the convenience of both the student and the minor advisor but falling within the limits established for all comprehensive examinations.

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

Results of comprehensive examinations must be submitted to the Graduate Office by the departmental chairperson no later than twelve working days before conferment of degree.

THESIS

Students electing to pursue the Option I degree program described on page 9 are required to prepare a thesis under the direction of a committee. The thesis provides an opportunity for the student to obtain first-hand experience in research methods under competent direction. Up to six hours of credit is allowed for the thesis and the candidate must include the thesis as a course in his/her schedule during at least one semester. The thesis should be initiated at least eight months before the commencement of the semester in which the student plans to receive his degree.

It is the responsibility of the student to be familiar with the "Instructions for the Preparation of Theses," a copy of which may be obtained in the Graduate Office. The thesis must be approved by the student's major and minor advisors, by the chairperson of the committee and submitted to the Graduate Office in final form four months before the time of the defense. A copy of the committee members on the approval sheets of all copies no later than twelve working days prior to the defense.

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

ORAL EXAMINATION ON THESIS

The composition of a committee to approve the thesis proposal and to conduct the oral examination over the thesis and thesis field is recommended by the department and submitted to the Dean for Graduate Studies and Research for his approval and appointment. This committee shall consist of at least one member of the student's major department and at least one graduate faculty member from the other department of the University. If the thesis examination is to be conducted with the oral comprehensive examination, at least one-half the time may be devoted to the thesis and one-half to the graduate work. The final oral examination is to be conducted in the presence of the candidate's advisor. The thesis examination is to be conducted in the presence of the candidate's advisor.

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

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

QUALITY OF WORK

A "B" average must be maintained in all graduate work taken as part of a degree program, with no more than two graduate courses in the degree program carrying a grade of "C." Notwithstanding a student's average, a grade of "C" in any three of three graduate courses in the degree program will result in automatic dismissal from any further graduate work. 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 be reinstated by the Dean for Graduate Studies and Research.

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

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

Each instructor must judge each situation. The instructor must also indicate by a departmental record a copy to the student, how and by when the Incomplete is to be removed, and if it is not removed by the time set, the student will be dropped from the University at the time of the removal, supervise the makeup work and report the permanent grade.

In the event that the instructor is not available at the time of the student's application for removal of an incomplete, the departmental chairperson shall supervise the removal and turn the Incompletes is to be removed, and if it is not removed by the time set, the student will be dropped from the University at the time of the removal, supervise the makeup work and report the permanent grade. Students may not change majors while they have two or more "Incompletes" on their record.
POLICY ON CLASS ATTENDANCE

The policy: Classes are conducted on the premise that regular attendance is desirable and expected. Each individual instructor has the responsibility for managing student attendance and for communicating, at the beginning of each semester, the class attendance policies which will be in effect for the term.

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 class is nonetheless responsible for information and assignments missed. If a student discovers that he or she is to be absent for an extended period, the student should promptly notify the instructor and be prepared to document the reason for extended absence.

"Instructors or other University officials who may request 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.

Appeals 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 appeals procedure is the same as that provided for in each departmental unit for other academic, classroom-related items (e.g., grades, cheating, etc.). In the case of absence, the justification for the appeal is in writing to the department. If the initial appeal decision is unsatisfactory, the next step in the appeals process rests with the student submitting a written statement to the respective academic dean indicating the specific nature of the appeal to be considered and requesting the consideration of the appropriate committee designated for such grievances.

"The committee makes a recommendation to the respective dean, and the decision of the dean is then conveyed to the student. If a student wishes to appeal further the decision of the academic dean, a written appeal may be submitted to the appropriate committee designated for such appeals. If the appeal is denied, an appeal may be made to the Departmental or Interdepartmental Appeals Committee.

The University Committee on Academic Standards shall recommend appropriate action to the Provost and Vice Chancellor for Academic Affairs. The routing of appeals shall be in the department and collegial unit offering the course in which the student is enrolled.

GENERAL APPEAL PROCEDURES FOR ACADEMIC MATTERS

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

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

1. Initially, the appeal should be submitted to the student's academic advisor.
2. If denied, the appeal may be submitted to the Departmental or Interdepartmental Area Graduate Committee administratively responsible for the student's graduate program.
3. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program.

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

1. Initially, the appeal should be submitted to the student's academic advisor.
2. If denied, the appeal may be submitted to the student's supervisory committee.
3. If denied, the appeal may be submitted to the Departmental or Interdepartmental Area Graduate Committee administratively responsible for the student's graduate program.
4. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program.

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

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

a. The campus graduate council has failed to examine or give adequate weight to information relevant to one party's position.

b. The campus council has given undue weight to evidence not pertinent to the case.

c. Some gross miscarriage of justice would be perpetrated if the decision of the campus council were allowed to stand.

d. It is up to the discretion of Committee III to decide if any of these conditions have been met.

2. Appeals to Committee III of the Executive Graduate Council must be made in writing and must specifically outline the grounds for the appeal. Such appeal must be made within 20 working days of the decision of the campus graduate council. The decision of Committee III is final and is not subject to further appeal.

3. Committee III may be submitted to the students of the graduate college.

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.

Communications regarding appeals should be directed to the Dean for Graduate Studies and Research.

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 actions on your behalf by the Ombudsman, are just some of the duties of the office. The service is confidential and free. If you have questions about University procedures, or don't know where to turn when you are confronted with unusual problems, try the Ombudsman, Administration 217. A more detailed description of the Ombudsman is in the Undergraduate Catalog.

STUDY LOAD

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

Students carrying less than twelve hours may obtain a regular students activities card by paying the full-time fee of $36.00.

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. Exceptions beyond that date will require the professor's certification that the student is 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 wishing to audit a course must secure the permission of the adviser, must register for the course with the audit, and must seek the approval of the department. Failure to do so may result in a cancelation of the student's registration. It is the policy of the University to adhere to the course prerequisite it will be to determine privileges including examinations connected with the course. An audit study may not obtain a grade in a class or be entered in the grading of the class. A student who wishes to change from audit to credit registration during the first week of a semester, or during the first half of a class if it runs longer or shorter than a semester.

COURSES FOR GRADUATE CREDIT

Courses which are available for graduate credit are those which have been especially approved by the Graduate Faculty with syllabuses on file in the Graduate Office. Courses numbered 800, 900, and 900 are open to graduate students only. Some courses numbered 900 are open to both seniors and graduates; the same is true of a selected few 900 numbered courses. It is expected as a rule that graduate students enrolled in those courses numbered 800-900 will do work of a higher level than undergraduates. Typically, such differentiation might include depth studies, field studies, individualized research, and special interest projects.

RESIDENCE REQUIREMENTS

A minimum of thirty semester credit hours in residence (36 in the case of the Master of Science, Master of Public Administration, and the Master of Banne's Administration degree), is required for granting of the degree. The student's adviser and the Dean for Graduate Studies and Research must approve the student's program of study prior to registration. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate Council for permission to take a special examination, or the current semester final examination in courses for which graduate credit has been recorded and is obsolete. A report of the results of the examination shall be prepared, given, and graded by the department, shall be filed in the Graduate Studies Office. Unless a grade of B or higher is obtained in the examination, the student shall be required to take the special examination, the amount of course work, the nature of which will be determined by the major adviser 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 ELS degree, regardless of major, must be completed during a six-year time 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 breakage, lost property, fines, penalties, parking, books, supplies, food, or special services not listed in this schedule. Tuition and related fees are payable in full at the time of registration, or in accordance with delayed billing schedules. Students avoiding themselves of the delayed billing option must familiarize themselves with the due dates, as publicized. Note: Failure to receive the mailed billing notice will not excuse the student from payment responsibility, nor the late payment penalties. Students in need of financial aid must consult the Student Financial Aids Officer in the Eppley Building. Payment for financial aid shall be made at the earliest possible time.

Registration is not complete until cleared by the Cashier. Failure to pay tuition or fees when due, or to meet payments on loans when due, may result in cancellation of registration, legal collection efforts, or both.

WithDRAWAL FROM THE UNIVERSITY

To officially withdraw from all classes and thereby from the University, and to receive any refund due, as well as appropriate posting of academic standing for the grading period in question, a graduate student is required to obtain the signatures of his adviser and the UNO Dean for Graduate Studies and Research or list designee prior to 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 program required for a master's degree must be completed within the consecutive calendar years. Upon the recommendation of the department concerned, a graduate student may apply to the Graduate Council for permission to take a special examination, or the current semester final examination in
Refund Schedule:

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<th>Event</th>
<th>Percentage Refunded</th>
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<td>Before first official day of semester</td>
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<td>First three days of classes</td>
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Resident Students

A student's right to classification as a resident for purpose of registration in a state educational institution must be determined under the provisions of Nebraska Revised Statutes of 1943, Sec. 10-202 (R.S. Supp., 1965). (See General Catalog.) Any student who has been classified as a nonresident who believes he can qualify as a resident should contact the Registrar's Office.

Student Development Services

Career Development Center

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

Non-Credit and Special Courses

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Fee</th>
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<tr>
<td>Non-Credit and Special Courses</td>
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Drop/Withdrawal Regular Semester Percent

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<th>Period of Drop/Withdrawal</th>
<th>Regular Semester</th>
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Summer Sessions (5 and 6 Weeks)

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Career Placement Services

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

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

A complete listing of local and regional teacher vacancies is available to all teacher candidates.
Counseling and Testing Center

There are several services offered by the Counseling and Testing Center. The Center is located in the Eppley Building, first floor, east wing. The services are available to all students, faculty, and staff without charge. The Center provides a setting in which a student can talk about anything he wishes to private with a counselor. It is the aim of the Counseling Center to use all available resources to assist students in making positive adjustments both in their academic and personal lives.

Counseling services are provided to assist UNO students in their intellectual, emotional, and social development. Students may come to the Counseling Center to talk with a professionally trained counselor anytime it is convenient for them. The staff believes that classes and studies are not an isolated part of a student's life. The educational process is greatly influenced by the problems which allow students to gain the full benefits of their educational experience. Concerns about school, friends, finances, worries, family problems, and vocational indecision are all some of the things that are often discussed with a counselor. The students can expect that their privacy will be respected, whatever is discussed with a counselor will be held in confidence.

The main concerns of the Counseling Center is the individual student. We try to help students better understand themselves in relation to the world they live in. Students can learn to make more realistic decisions, increase their self-esteem, and discuss the things which concern them in a free, relaxed atmosphere. This experience results in the students knowing themselves better, becoming more comfortable with themselves, and being more effective in the total life experience.

Retesting of other help is available on a walk-in basis. Quite frequently students are unaware of where to turn for assistance in specific problems. The Counseling and Testing Center can act as a referral source to other services such as the Reading Clinic, Student Financial Aid, and others which are help the students if they are aware of their availability. Contact with referral sources outside the University is also maintained for those students who might profit from them. The Center is a one-stop service center, where to go for special assistance, the Counseling and Testing Center can usually supply relevant information.

Examinations for Admission to Graduate or Professional Schools. The Counseling and Testing Center at UNO administers special examination required to enter professional or graduate school. The following are among these examinations:

- Graduate Record Examinations
- Miller Analogy Test
- Graduate Management Admissions Test
- Law School Admissions Test
- Test of English as a Foreign Language

Information and applications are available at the Counseling and Testing Center in the east wing of the Eppley Building.

Vocational and Educational Testing

The University believes that academic programs can be most efficiently planned in terms of the interests, aptitudes, and objectives of the individual student; therefore, an extensive testing system has been developed. While there is no one test or group of tests which will magically reveal exactly the occupation of which one is best suited, a battery of psychological tests may be used to yield separate aptitude for certain broad fields of work. The test offered by the Counseling and Testing Center includes tests of five major types — intelligence, interest, achievement, aptitude, and personality — on the belief that each of these factors is significant in understanding oneself and in making educational and vocational plans.

A professionally trained counselor may help students to explore the possibility of taking these tests at minimal or no cost. Professional counselors in the Counseling and Testing Center are available to all students for explanation and interpretation of these tests.

Information and educational information is available at the Counseling Center. The student has access to such information as educational opportunities, trends, and qualifications for various careers; and training opportunities in many fields. Information on academic, social, and personal nature is also available. The office is located in the east wing of the Eppley Building.
EXCELLENT RECORD: The Mary-Ellen Patterson-Phi Delta Gamma Scholarship and the Nelle B. Ouyer-Phi Delta Gamma Scholarship are available for graduate students who wish to use special research facilities or take courses not available at the University of Nebraska at Omaha. The Graduate student who wishes to use special research facilities or take course not available at the University of Nebraska at Omaha may do so with a minimum of red tape. The Dean for Graduate Studies and Research serve as Chairperson of the Graduate Faculty at UNO and of the UNO Graduate Council. Information about graduate programs, including qualifications of graduate faculty members, is available in the Graduate Office.

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 unexcelled opportunities for supervised educational experiences at the graduate level in conjunction with the degree program. The assistantship may range from $3,000 to $6,000. Approximately twenty hours of work per week is required. The enrollment of students with assistantships will be limited to no more than twelve credit hours per semester unless the student has demonstrated extraordinary efficiency and the adviser recommends the abnormally high work load to the Dean for Graduate Studies and Research for his approval.

Graduate assistantships will be expected to carry at least six graduate credits per semester (with two five-week summer sessions equivalent to one semester) Graduate assistantship are available to students who must earn money for self-support may be required to reduce correspondingly the number of hours for which they may register. Such adjustments shall be subject to the approval of the Dean for Graduate Studies and Research.

Applications and their supporting credentials must 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 often available for qualified students who have been admitted to graduate study. Eligibility is based on academic qualifications and financial need.

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

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

SCHOLARSHIPS
Phi Delta Gamma, a national fraternity for women, offers two annual scholarships of $150 each to women graduate students who have completed approximately one half of their graduate work with an excellent record. The Mary-Ellen Patterson-Phi Delta Gamma Scholarship and the Nelle B. Ouyer-Phi Delta Gamma Scholarship are available for graduate students who wish to use special research facilities or take courses not available at the University of Nebraska at Omaha. The student may spend a semester at another MASA University simply by making appropriate arrangements at UNO. Nebraska residents pay resident tuition. The Graduate Office has further information.

LOANS
Graduate Students are eligible to apply for National Direct Student Loans (NDSL) which are based upon financial need. Qualified women graduate students are eligible for a Phi Delta Gamma loan on a limited basis. To apply for loans from other sources as well, contact the Director of Financial Aid, Room 219, Eppley Building.

ADMINISTRATION FOR GRADUATE STUDIES

GRADUATE FACULTY
The Graduate Faculty prescribes the qualifications of all professors who offer graduate work and approves all courses which may be taken for graduate credit. The Dean for Graduate Studies and Research serves as Chairperson of the Graduate Faculty at UNO and of the UNO Graduate Council.

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

1. The nominee must hold the rank of Assistant Professor or above.
2. The nominee must hold the terminal degree normally accepted for academic employment in the field (and its clear equivalent) as determined by the Graduate Committee of the nominee's department or interdepartmental area.
3. The nominee will act as part of his or her regular duties be actively involved in graduate student research and/or graduate teaching.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential beyond teaching. This evidence must be provided by the nominator.

GRADUATE FACULTY MEMBERS

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

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

1. The nominee must hold the rank of Assistant Professor or above.
2. The nominee must hold the terminal degree normally accepted for academic employment in the field (and its clear equivalent) as determined by the Graduate Committee of the nominee's department or interdepartmental area.
3. The nominee will act as part of his or her regular duties be actively involved in graduate student research and/or graduate teaching.
4. The nominee must have demonstrated clear evidence of scholarly activity and potential beyond teaching. This evidence must be provided by the nominator.

GRADUATE FACULTY FELLOWS

RESPONSIBILITIES
Graduate Faculty Fellows may teach graduate courses, supervise and serve on supervisory committees for students working towards pre-doctoral degrees, vote on all matters presented to the Graduate Faculty, and vote on nominations for Graduate Faculty Fellows.

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

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

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

ORGANIZATIONS
Phi Delta Gamma is a national sorority for graduate women in all fields. Membership is by invitation.
Phi Delta Kappa is a national fraternity for men who are graduate students in Education. Membership is by invitation.
Beta Gamma Sigma is a national honorary society for students in Business Administration. Membership is by invitation.
Pi Chi is a national honorary association for graduate students in Psychology. Membership is by invitation.
Omicron Delta Epsilon is a national honorary association for graduate students in Economics. Membership is by invitation.
in disciplines where publication is the normal outlet for scholarly work or research, the nominator may provide evidence of the nominee's significant contributions to publication under the imprint of recognized scholarly publishing houses or journals. Publication must have resulted from a judgment of quality by an editorial board.

b. Publication on or in the nominee's terminal dissertation is insufficient, although publication of the dissertation or parts of it is significant if the nominator indicates the manner in which the published version represents a substantial amount of scholarly work in addition to that required for dissertation.

c. In disciplines such as art, architecture, theatre, or music where publication is not the normal or singular end product, the nominator must provide evidence of creative work accomplished by the nominee. This creative work must bear evidence of acceptance by peers within the discipline.

3. The nominator must indicate current involvement of the nominee in research and/or creative work.

4. The nominator may provide evidence of the nominee such as published textbooks related to graduate education, published instructional materials, published professional reports, or evidence of funded research and development projects.

5. The nominator may provide evidence of the nominee's teaching effectiveness in working with graduate students. This evidence may consist of peer and student evaluations or reports of student achievement subsequent to the receipt of advanced degrees.

GRADUATE COUNCIL

The Graduate Council of the Graduate Faculty at UNO is composed of elected faculty members and three graduate students. This Council considers graduate policies, procedures, and proposed academic offerings. Information about the structure of the Council, selection of the committee, and names of the Graduate Faculty members who are currently serving on the Council is available in the Graduate Office.

FACULTY SENATE RESEARCH COMMITTEE

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

EXTRAMURAL GRANTS

Through the Dean for Graduate Studies and Research, the Office of Grants Development provides advice and technical assistance to faculty and staff in the following areas: solicitation of funds from private sources; preparation of research proposals; preparation of grant budgets; preparation of grant financial reports; except property programs; and implementation of workshops, seminars, and classes on grants development. The Director of Grants Development reports directly to the Dean for Graduate Studies and Research.

GRADUATE PROGRAM COMMITTEES

Each department (or area) offering a graduate degree has a Graduate Program Committee of at least three members. This committee and its chairperson are recommended annually by the graduate faculty members of the department or area to the Dean for Graduate Studies and Research.

In its department the Graduate Program Committee has the responsibility for the planning of the graduate program, the general supervision of the candidates for graduate degrees, and the examination of students by means such as the qualifying examination and the final comprehensive examination when such examinations are not given by a student's thesis or field project supervisory committee.

Each new graduate student, in conference with the chairperson of the Graduate Program Committee of the major department, shall select a major adviser. For the student who has a supervisory or advisory committee, the composition of the committee shall be recommended to the Dean for Graduate Studies and Research by the chairperson of the student's Graduate Program Committee after consultation with the student and the major adviser. At the master's level, committees of three members are usually sufficient. The chairperson should be a member of the Graduate Faculty and when ever feasible, the student's adviser and thesis director. The representative from a department other than the major department must be a member of the Graduate Faculty. The chairperson may be a faculty member in the university system who is appointed to serve ex officio (without vote) as consultant or to gain experiences as special representatives of the Dean for Graduate Studies and Research. The
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 matriculation fee 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. NOTE: Filing for candidacy is not the same as filing for a degree. It is necessary for you to make application for the degree in the semester in which you intend to graduate.

7. If you are a transfer student, you must consult with your department's Graduate Program Committee to determine which courses you will be allowed to transfer. These courses must be included on your application for candidacy.

8. You will be informed by mail of your admission to candidacy. 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.

9. If your approved program includes a thesis, obtain a copy of "Instructions for the Preparation of Theses" from the Graduate Office and prepare your thesis in accordance with Graduate College guidelines and departmental style requirements. Make arrangements with your department for oral examinations. The completed, fully corrected and approved thesis must be deposited in the Graduate Office together with the proper number of copies of it at least twelve working days prior to the conferral of the degree. The thesis binding fee must be paid in the Registrar's Office prior to the depositing of the thesis in the Graduate Office.

10. 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 reactivate your application.

11. Pay all fees and fines and satisfy all obligations to the University at least twelve working days before conferral of the degree.

12. Order a cap, gown and hood from the Bookstore.
Degree Requirements

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 (advanced and aptitude) is required and the scores should be submitted as soon as possible.

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 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 societal, economic, legal and political factors which influence business decisions and develops an appreciation of the social responsibilities of business.

Emphasis is placed on decision making and problem solving.

Admission Standards

The minimum standards for students in the MBA program are:

Junior-Senior GPA x 200 + GMAT = 1020

The GMAT score must not be below 400 in computing the above total.

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

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 graduate program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra</td>
<td>Math</td>
</tr>
<tr>
<td>Economics</td>
<td>Econ</td>
</tr>
<tr>
<td>Accounting</td>
<td>Acc</td>
</tr>
<tr>
<td>Computers in Business</td>
<td>CIS</td>
</tr>
<tr>
<td>Quantitative Methods</td>
<td>DIS</td>
</tr>
<tr>
<td>Production/Operations Management</td>
<td>MIS</td>
</tr>
<tr>
<td>Business Law</td>
<td>L &amp; S</td>
</tr>
<tr>
<td>Corporation Finance</td>
<td>BFS</td>
</tr>
<tr>
<td>Statistics</td>
<td>Econ 201 and Econ 202 or Econ 8000</td>
</tr>
<tr>
<td>Accounting</td>
<td>Acc 201 and Acc 202 or BA 8113</td>
</tr>
<tr>
<td>Computers in Business</td>
<td>CIS 212</td>
</tr>
<tr>
<td>Quantitative Methods</td>
<td>MIS 350 Statistics</td>
</tr>
<tr>
<td>Production/Operations Management</td>
<td>MIS</td>
</tr>
<tr>
<td>Business Law</td>
<td>L &amp; S 323</td>
</tr>
<tr>
<td>Corporation Finance</td>
<td>BFS 325</td>
</tr>
</tbody>
</table>
Mandments

Management Principles MOB 349 MKT 331

These foundation courses cannot be used to meet the 36 semester hours required for the MBA degree. The quality of work in the foundation core should be the same as for degree requirements.

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

Students who through experience or self-study consider themselves proficient in any of these areas may complete a satisfaction by Examination in lieu of course work. It is recommended that students complete the majority of the foundation courses before enrolling in either core courses, option courses, or electives.

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

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 800V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 810V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 820V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 830V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 840V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 850V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 860V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 870V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 880V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 890V</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

Option Courses

Option #1 - Business Administration

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 832V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 833V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 834V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 835V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 836V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 837V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 838V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 839V</td>
<td>3 hours</td>
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</tbody>
</table>

Option #2 - Marketing

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 842V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 843V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 844V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 845V</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

One of the following courses:

- BA 830V: Business Conditions Analysis
- BA 850V: Business Policy
- BA 860V: Business Management
- BA 870V: Business Research
- BA 880V: Business Strategy

Option #3 - Decision Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 800V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 801V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 802V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 803V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 804V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 805V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 806V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 807V</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

One of the following courses:

- ECON 803V: Economies
- ECON 804V: Independent Research (in Decision Sciences)
- ECON 805V: Independent Study

Option #4 - Real Estate

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 860V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 861V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 862V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 863V</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

One of the following courses:

- BA 810V: Business Information Systems
- BA 820V: Business Planning
- BA 830V: Business Research
- BA 840V: Business Strategy
- BA 850V: Business Structure
- BA 860V: Business Training
- BA 870V: Business Strategy

Option #5 - Accounting

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 821V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 822V</td>
<td>3 hours</td>
</tr>
<tr>
<td>BA 823V</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

One of the following courses:

- BA 810V: Business Information Systems
- BA 820V: Business Planning
- BA 830V: Business Research
- BA 840V: Business Strategy
- BA 850V: Business Structure
- BA 860V: Business Training
- BA 870V: Business Strategy

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

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

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 any one foundation or graduate courses is permitted.

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

CIVIL ENGINEERING

Master of Science

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

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

Master of Arts

In or 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 apply for any type of admission.

All students who major in Communication are required to complete the 12 semester hours of core courses prescribed by the Graduate Committee. These core courses provide a basic, intensive and broad coverage of communication as a field of advanced study, including foundations of both mass and transactional communication in conjunction with research and theory. Currently the core courses are Communication 801V, 847V, 857V, and a theory or research seminar, above the 8000 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. Each plan of study must be designed to reflect either the thesis option 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 comprehensive examination covering the student’s field of study (unless 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 GUIDANCE

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 to completion on a continuous enrollment basis. Full-time study is encouraged, however, provision is made for a student to take courses on a part-time or full-time basis. Students who are unable to devote more than part-time to their program or who require to follow a semester schedule will be advised to do so in a delayed completion date.

Students must obtain a Master’s degree in Counseling and Guidance with an area of specialization. Current specialty areas include Elementary School Counseling, Secondary School Counseling (both of which require current teaching certificates for endorsement as a Counselor in Nebraska), and Guidance Counselor (or in other areas of specialization). Required courses are determined in relation to the student’s previous coursework, experience and anticipated work setting. Most programs however would fit within one of the general outlines given below.

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

Major points where students are evaluated with respect to their suitability for continuation in the program are: 1) initial admissions to Graduate Studies and Department, 2) admission to candidacy and 3) prior to taking the Counseling Practicum or Internship courses. Successful completion of the Counseling Practicum or Internship is a requirement for graduation.

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

The last date for filing admissions credentials for admission to the Counseling and Guidance Department is April 15 for the Spring Semester of 1981. Students are admitted to the programs in Counseling and Guidance during each academic year. If students wish to begin the program at a different time from those indicated, they may discuss this with the faculty in the Department.

NOTE: Non-counseling degree students may obtain an elective option in Affective Human Services and Guidance in conjunction with a minor in an area of interest.

Master of Arts

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

Master of Science

Specialization in Agency Counseling

I. Foundation Courses
- FED 801V, Introduction to Research
- Selected Core Courses
- 801V, 847V, 857V
- A theory or research seminar above the 8000 level

II. Counseling and Guidance Courses
- COUN 860M, Principles of Guidance and Counseling
- COUN 830V, Introduction to Counseling Theories
- COUN 821V, Occupational and Educational Information
- COUN 823V, Approval Techniques in Counseling and Guidance
- COUN 824V, Counseling Practices
- COUN 825V, Counseling Practicum
- COUN 829V, Community Involvement for Urban Counselors

III. Specialization in School Counseling
- COUN 820V, Counseling Practicum

Specialization in School Counseling — Elementary Level

I. Foundation Courses
- FED 801V, Introduction to Research
- Selected Core Courses
- 801V, 847V, 857V
- A theory or research seminar above the 8000 level

II. Counseling and Guidance Courses
- COUN 860M, Principles of Guidance and Counseling
- COUN 830V, Introduction to Counseling Theories
- COUN 821V, Organization and Administration of Guidance Services
- COUN 823V, Occupational and Educational Information
- COUN 823V, Approval Techniques in Counseling and Guidance
- COUN 825V, Counseling Practices
- COUN 825V, Counseling Practicum

III. Specialization in School Counseling — Elementary Level
- FED 801V, Introduction to Research

*Eaching certificate required for instructional endorsement to serve as secondary or elementary school counselors in Nebraska or Iowa.
UNIVERSITY OF NEBRASKA AT OMAHA

PSYCH 811V. Advanced Educational Psychology

36

II. Selected Cognate Courses

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

CUN 820V. Introduction to Counseling Theory

COUN 821V. Child Assessment in Elementary School Guidance

COUN 822V. Counseling Elementary School Children

COUN 880V. Principles of Guidance and Counseling

FED 810V. Seminar in the following course requirements:

(1) Foundation Courses

(2) Selected Cognate Courses

Students are selected in accordance with the student's particular area of interest. Most of these courses are taken in the departments of Sociology and Psychology.

Counseling and Guidance Courses

The pattern of coursework is individually designed to prepare the student for specific roles within the field of student personnel services, i.e., Admissions and Registrations, Counseling, Housing, Placement and Student Activities.

Counseling with specialization in General Counseling

COUN 100. Principles of Guidance and Counseling

COUN 120. Counseling Techniques

COUN 121. Introduction to Counseling Theory

COUN 201. Occupational and Educational Information

COUN 210. Research in Counseling & Guidance

COUN 245. Counseling Practicum

COUN 255. Counseling Foundations

COUN 260. Group Techniques in Guidance

COUN 275. Group Techniques in Guidance

Selected additional courses in the Department

These courses are selected with the major advisor's assistance and in collaboration with the Counseling Program.

CRIMINAL JUSTICE

Degree Programs

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

Admission Requirements for the Criminal Justice Graduate Program:

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

Master of Arts

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

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

Required Core Courses

Criminal Justice Planning and Innovation

Criminal Justice Research Theory and Methodology

Elective Courses

Graduate courses in related fields as approved by the student's advisory committee

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 Criminal Justice Core Courses

Criminal Justice Planning and Innovation

Criminal Justice Research Theory and Methodology

Required Public Administration Core Courses

Public Financial Management

Public Administration: Planning, Organization, and Control

Non-Thesis Option

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

Required Core Courses

Criminal Justice Planning and Innovation

Criminal Justice Research Theory and Methodology

Elective Courses

Graduate courses in related fields as approved by the student's advisory committee

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 15 undergraduate semester hours in appropriate courses in dramatic arts beyond the introductory course. Deficiencies must be made up during the first year of graduate study.

The graduate program in Dramatic Arts is designed to 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 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

Master of Arts

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

Degree Requirements: The program must include a balanced coverage of the major areas in economics. At least 15 hours of the required 30 hours, including thesis, must be courses numbered at the 800 level or above. Students must also satisfactorily complete Economics 220, 221, and 220W.

The course work under the Master of Arts program consists of 24 hours and 6 hours of thesis under course 899, Thesis.

Master of Science

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

Degree Requirements: The course program must include a balanced coverage of the major areas in economics. At least 18 hours of the required 36 hours must be approved at the 800 level or above. Students must also satisfactorily complete Economics 220, 221, and 220W.

There are two basic options for students seeking a Master of Science. Option I consists of a total of 36 hours of course work. Option II, a student takes 30 semester hours of course work and writes two research papers on topics approved by the Graduate Study Committee, each paper worth three semester hours.

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

As part of the required 36 hours, graduate course work in related fields may be taken, up to a total of not more than 12 semester hours.

Educational Administration and Supervision

Master of Science

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

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

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

An applicant for admission to the Specialist in Education degree in the department of Educational Administration and Supervision must hold a Master’s degree and present acceptable evidence of having served as a certified school administrator or supervisor. These programs of study are designed to help harmonize the student’s needs and ambitions. Articulated with the Master’s Degree, the Specialist degree program must accumulate to not less than 66 graduate semester hours. The program is carried out un-
# PROGRAM

This program will consist of a minimum of thirty-six hours selected from the following course offerings. Eighteen hours are required; six to nine hours may be selected from the Primary Electives and a minimum of nine hours are to be selected from the Secondary Electives.

### Required (18 Hours)

The following courses are sequenced. Students should take these required courses in order:

1. **FED 801** Introduction to Research (F:S:SS) ............... 3 Hours
2. **FED 802** 1 Socio-Economic Policy (F:S:SS) ............... 3 Hours
3. **FED 803** 2 History & Philosophy of Education (F:S:SS) .... 3 Hours
4. **FED 809** The Urban School (F:S:SS) ............... 3 Hours
5. **FED 810** Alternative Strategies in Education (S) ....... 3 Hours
6. **FED 831** Seminar in Urban Education (F:S:SS) ............... 3 Hours

* F=Fall, S=Spring, SS=Summer Session.

### Primary Electives (6 to 9 Hours)

- **FED 800V**, Education and Society (F) ............... 3 Hours
- **FED 804W**, Praxicon or Project (F:S:SS) ............... 3 Hours
- **FED 812M**, Field Research in Urban Education (S) ....... 3 Hours
- **FED 814M**, Mental Health (F:S:SS) ............... 3 Hours
- **FED 834V**, Anthropology & Urban Education (S) ............... 3 Hours
- **FED 898M**, Growth and Learning Problems of the Disadvantaged (F:SS) .......... 3 Hours

### Secondary Electives (Minimum of 9 Hours)

Students may substitute other courses with approval of Urban Education Committee.

#### Business Administration

- **BA 811H**, Survey of Accounting ............... 3 Hours
- **BA 812L**, Analytical Foundations of Economics ............... 3 Hours
- **BA 813L**, Human Behavior in Organizations ............... 3 Hours

#### Counselling & Guidance

- **COUN 898M**, Principles of Guidance ............... 3 Hours
- **COUN 821V**, Organization & Administration of Guidance Services ............... 3 Hours
- **COUN 829V**, Community Involvement ............... 3 Hours

#### Economics

- **ECON 811M**, Government and Labor ............... 3 Hours
- **ECON 813M**, Collective Bargaining ............... 3 Hours
- **ECON 805V**, Economic Education ............... 3 Hours
- **ECON 806V**, Economic Education ............... 3 Hours
- **ECON 807V**, Independent Study in Urban Education ............... 3 Hours
- **ECON 884V**, Interdisciplinary Seminar in Urban Community ............... 3 Hours
- **ECON 885V**, Seminar in Urban Economics ............... 3 Hours

#### Educational Administration

- **ED AD 801V**, Foundations of Educational Administration & Supervision ............... 3 Hours
- **ED AD 802V**, Theory & Practice of Supervision ............... 3 Hours
- **ED AD 804V**, Interpersonal Relationships in Educational Administration ............... 3 Hours

#### Elementary Education

- **EL ED 801V**, Introduction to Curriculum Planning ............... 3 Hours
- **GEOG 812M**, Urban Geography ............... 3 Hours
- **GEOG 820M**, Urban Geography ............... 3 Hours
- **GEOG 821V**, Cultural Geography ............... 3 Hours

#### Gerontology

- **GERO 810M**, Gerontology ............... 3 Hours
- **REC 824**, Organization & Administration of Recreation ............... 3 Hours
- **HTH 855M**, Health Aspects of Aging ............... 3 Hours
- **PE 823M**, Foods in American Culture ............... 3 Hours
- **HIST 823M**, American Social and Intellectual History since 1865 ............... 3 Hours
- **HIST 827M**, 20th Century America, to 1937 ............... 3 Hours
- **HIST 828M**, 20th Century America, to 1937 ............... 3 Hours
- **HIST 843M**, American Urban History Since 1800 ............... 3 Hours
- **JOUR 823M**, Public Relations ............... 3 Hours
- **JOUR 825M**, Mass Communications and Public Opinion ............... 3 Hours
- **POL SCI 812M**, Public Opinion and Political Behavior ............... 3 Hours
- **PSY 851V**, Learning in Children ............... 3 Hours
- **PSY 859V**, Social and Personality Development ............... 3 Hours
- **PSY 832V**, Tests and Measurements ............... 3 Hours
- **SED 825V**, Seminar in Secondary Education ............... 3 Hours
- **SED 831**, Emergent School Curriculum ............... 3 Hours
- **SED 833**, Analysis of Teacher Behavior ............... 3 Hours
- **SW 801M**, Human Behavior and the Social Environment ............... 3 Hours
- **SW 821M**, Physical Components of Social Functioning ............... 3 Hours
- **SW 837M**, Physical Components of Social Functioning ............... 3 Hours
- **SW 961M**, Social Welfare Policy ............... 3 Hours

#### Sociology

- **SOC 811M**, Social Control of Behavior ............... 3 Hours
- **SOC 823M**, Collective and Exchange Behavior ............... 3 Hours
- **SOC 834M**, Advanced General Sociology ............... 3 Hours
- **SOC 835M**, The Community ............... 3 Hours
- **SOC 836M**, Sociology of Deviant Behavior ............... 3 Hours
- **SOC 841M**, Urban Sociology ............... 3 Hours
- **SOC 851M**, Seminar in Cross Cultural Communication (also 835M Speech) ............... 3 Hours
- **SOC 872M**, Complex Social Organizations ............... 3 Hours
- **SOC 875M**, Social Change ............... 3 Hours
- **SOC 889V**, Independent Study on Urbanism ............... 3 Hours

#### Urban Studies

- **US 818V**, The Metropolitan as a Public Entity ............... 3 Hours
- **US 820V**, Race Ethnicity, and American Urban Culture ............... 3 Hours

## ELEMENTARY AND EARLY CHILDHOOD EDUCATION

### Masters of Arts

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

### Master of Science

**Admission to the Program**

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

### Candidacy for the Degree

1. A plan of study and admission to candidacy are completed in conference with the student’s adviser when six (6) hours of graduate work have been completed. This plan of study must be approved by the Department and the Graduate Office.
2. A written comprehensive examination is required during the semester in which a student completes the program. Application for the examination must be made to the Director of Graduate Studies in the department. The examination covers coursework taken and its content is determined by each individual student’s program.

### Degree Program

#### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FED 801</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>FED 802</td>
<td>Socio-Economic Policy</td>
<td>3</td>
</tr>
<tr>
<td>FED 803</td>
<td>History &amp; Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
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<td>3</td>
</tr>
<tr>
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<td>Alternative Strategies in Education</td>
<td>3</td>
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<td>FED 831</td>
<td>Seminar in Urban Education</td>
<td>3</td>
</tr>
<tr>
<td>BA 811H</td>
<td>Survey of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BA 812L</td>
<td>Analytical Foundations of Economics</td>
<td>3</td>
</tr>
<tr>
<td>BA 813L</td>
<td>Human Behavior in Organizations</td>
<td>3</td>
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#### Additional Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ECON 811M</td>
<td>Government and Labor</td>
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<td>Collective Bargaining</td>
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</tr>
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<td>3</td>
</tr>
<tr>
<td>ED AD 804V</td>
<td>Interpersonal Relationships in Educational Administration</td>
<td>3</td>
</tr>
<tr>
<td>EL ED 801V</td>
<td>Introduction to Curriculum Planning</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 812M</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 820M</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 821V</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GER 810M</td>
<td>Educational Gerontology</td>
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<td>HIST 843M</td>
<td>American Urban History Since 1800</td>
<td>3</td>
</tr>
</tbody>
</table>

### Other Requirements

- **EEO 843V**, Introduction to Curriculum Planning - Elementary
- **EED 844V**, Seminar in Elementary Education
- **EDAD 801V**, Administration and Supervision in Elementary Schools | 3 |

The student will include in his Plan of Study, a major 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, Guid-
Non-Degree-Seeking Students

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

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

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

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

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

English 801V: Structure of English
English 802V: Phonetics
English 803V: Linguistic Theory
English 804V: Modern English

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

Language:

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

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

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

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

THE MASTER OF ARTS DEGREE WITH A MAJOR IN GENERAL SCIENCE

This graduate degree is designed to provide a broad scientific background for students who wish to gain greater proficiency in the natural sciences. The program for the Master of Arts with a major in General Science will be directed by a Graduate Science Committee consisting of representatives (elected by their respective graduate faculties and approved by the Dean for Graduate Studies and Research) of biology, chemistry, geology, physics, and geophysics. The Graduate Science Committee may prescribe such tests as it deems necessary in order to determine if an applicant is adequately prepared for graduate work and will supervise the final oral examination. Each candidate will be assigned an advisor who will be responsible for the candidate's curriculum and thesis in accordance with the policies established by the Graduate Science Committee and the Graduate Council.

Prerequisites: An applicant for full admission to the graduate program must present a Bachelor's degree. In addition, eight semester hours of credit must be presented in each of the four natural science areas.

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

GEOPHYSICAL SCIENCE

Degree Program

The department offers the following degrees with a major in geology: the Master of Arts degree and the Master of Science degree.

The Master of Arts with a major in geology is intended for preparing themselves in areas other than physical geography; whereas, the Master of Science with a major in geology is intended for students desiring to do major work in physical geography. Each degree has two options:

Option I should be chosen by those preparing for careers in research and scholarly work, or in college or university teaching. The option requires a minimum of 24 semester hours in geography courses numbered 800M or 800V-900, and thesis or 1.5 hours for a combined total of 30 minutes.

Option II may be chosen upon the advice and with the approval of the major advisor. This option requires a minimum of 36 semester hours in geography courses numbered 800M or 800V-900, or selected cognate courses in other departments. No thesis is required for this option.

Students who have taken the degree under Option II and later elect to continue in graduate work for the Ph.D., will not be encouraged by the department to continue unless evidence of ability to carry on independent research is presented.

Admission Requirements

An applicant for admission to either of the following plans of study must present a prerequisite minimum of 15 undergraduate semester hours of geography including Physical (106 or 107 and 117) and Cartography (353) or the equivalent. These students not meeting minimal course requirements must remove any deficiency during the first year of graduate study.

Individual programs of study will be designed for incoming graduate students on the basis of GRE scores and personal interview. This should enable each student and his advisor to construct a program oriented to individual needs and desires.

Requirements

1. Students wishing to work toward the Certificate in Geology must take and pass Geology 211 and 213. Those working toward a graduate degree may also be accepted into the degree program of their major department.

2. Course work requirements consist of a minimum of 15 semester hours in Geology. The only required course is GEOG 811M—Applied Social Geology (3 semester hours); the other 12 hours (4 graduate level courses) in Geology are selected by the student in consultation with the Academic Coordinator of the Geology Program. In this manner, individually programmed studies of graduate students are developed for each student to meet his or her career goals and interests.

3. A one-week, six-credit-hour geology field trip, 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 GEOG 894M—Practicum and participate in periodic seminars with the Practicum Supervisor of the Geology 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:

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 take and pass Gerontology 351 and 352. Those working toward a graduate degree may also be accepted into the degree program of their major department.

2. Course work requirements consist of a minimum of 15 semester hours in Gerontology. The only required course is GERO 811M—Applied Social Gerontology (3 semester hours); the other 12 hours (4 graduate level courses) in Gerontology are selected by the student in consultation with the Academic Coordinator of the Gerontology Program. In this manner, individually programmed studies of graduate students are developed for each student to meet his or her career goals and interests.

3. A one-week, six-credit-hour 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:
HEALTH, PHYSICAL EDUCATION, AND RECREATION

The School of Health, Physical Education, and Recreation offers graduate courses in the areas of health education (HED), recreation education (RED), and physical education (PE). At present, the Master of Arts and the Master of Science degrees are offered with a major in physical education.

Master of Science
Major in Physical Education

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

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. PE Core</td>
<td>Min</td>
</tr>
<tr>
<td>PE 821V Problems and Issues in Physical Education</td>
<td>12</td>
</tr>
<tr>
<td>PE 823V Curriculum in Physical Education</td>
<td>12</td>
</tr>
<tr>
<td>II. Research</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods, Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>III. Professional Specialization</td>
<td>3</td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Seminars, Workshops, Independent Research, Special Studies</td>
<td>18</td>
</tr>
<tr>
<td>IV. Related Academic Courses</td>
<td></td>
</tr>
</tbody>
</table>

Master of Arts
Major in Physical Education

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

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<tr>
<td>PE 823V Curriculum in Physical Education</td>
<td>12</td>
</tr>
<tr>
<td>PE 840V Motor Learning and Performance</td>
<td>3</td>
</tr>
<tr>
<td>PE 841V Kinesiological Analysis of Motor Skills</td>
<td>3</td>
</tr>
<tr>
<td>II. Research</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods, Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>III. Professional Specialization</td>
<td>3</td>
</tr>
<tr>
<td>Improvement of Instruction, Teaching Seminars, Workshops, Independent Research, Special Studies</td>
<td>18</td>
</tr>
<tr>
<td>IV. Related Academic Courses</td>
<td></td>
</tr>
<tr>
<td>V. Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimums or maximums determined by advisor.
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 or university. The applicants must have earned at least 18 hours in Food and Nutrition, Chemistry, and Biological Science.

The required minor must be completed in a department other than those in the College of Home Economics and the Department of Human Development and the Family. Textiles, Clothing and Design, Economics or its equivalent, or a Master of Science in Psychology or Sociology is also accepted. The required minor is necessary to take some courses on the Lincoln campus, though additional graduate course offerings from the College of Home Economics will be available in Omaha periodically dependent on student demand.

If Option I is selected, the thesis research may be done in Economics or its equivalent. The undergraduate work must have included the equivalent of 24 hours in any of the subject matter areas.

The student must satisfactorily complete thirty semester hours. twenty-four of course work and six of thesis work. As listed under the Master of Science above.

The program is intended for those who expect to pursue a doctoral degree.

Home Economics graduates offering admissions to UNO may be used as a minor (HDR or FN) for those pursuing programs in another discipline. The minor portion should be determined in consultation with a designated member of the Graduate Faculty from Home Economics.

Admission to a graduate program in Home Economics is to be made to Graduate Studies at the College of Human Development and Family Studies and Research.

Master of Science

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

a. Earn a total of 30 acceptable credits. at least 18 of which must be in mathematics.

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

c. Include in the mathematics courses 823M-824M, 827M and one of the following sequences: 811M-812M, 830M-831M, 855M-856M.

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

e. Pass a written comprehensive examination.

Admission Requirements

For admission to the program, an applicant must have completed a minimum of five semester hours of acceptable mathematics courses beyond elementary calculus. The student must have an average of B+ or higher in the last two undergraduate years and must satisfy the Graduate College GRE requirement. In addition, the department requires two letters of recommendation from persons who are in a position to evaluate the applicant's potential for graduate studies before an applicant can be considered for unconditional admission.

Master of Arts

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

a. Earn a total of 30 credits in mathematics.

c. Complete a thesis not to exceed 6 semester hours, which may be applied toward the 36-hour total.

e. Pass a written comprehensive examination.

Admission Requirements

For admission to the program, the student must:

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

b. Include in his program mathematics courses 810T, 820T, 830T, 842T-870T (Courses 822T-870T may be waived if the equivalent undergraduate courses have been taken).

c. Include in his program secondary education courses 850V, 830V, 834V, 946V, or 996V.

d. As listed under the Master of Science above.

e. As listed under the Master of Science above.

POLITICAL SCIENCE

Admission Requirements

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

Doctor of Philosophy

Admission Requirements: A minimum of 15 undergraduate semester hours of psychology courses including basic statistics and an upper level laboratory course emphasizing data collection, statistical analysis, and report writing; Graduate Record Examination scores on the General, Quantitative, and Advanced Psychology sections. A letter of recommendation is required. However, applicants who believe that such letters would provide information that is important and cannot be clearly communicated in other documents are encouraged to have one or more letters submitted in their behalf. Three letters of recommendation are required of those applicants who are seeking admission to a doctoral program if they have been previously enrolled in another institution or are doing excellent work toward their Masters degree which includes a demonstration of research skills. There are no generally specified language or research skill requirements, but each student is expected to demonstrate proficiency in language, research skills, or knowledge in collateral research areas appropriate for the student's research interests as determined by the Supervisory Committee and the Departmental Graduate Committee. Specific requirements and procedures for the Ph.D. degree are printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.

Summary of Procedure for the Doctor of Philosophy Degree

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

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

Registration after consultation with advisor in major and minor department.

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

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

Complete satisfactory completion of foreign language or research tool requirements set forth in the approved program and passing of comprehensive examinations in major and minor or related fields when the student has completed at least half of the degree program or is doing excellent work toward their Masters degree which includes a demonstration of research skills. There are no generally specified language or research skill requirements, but each student is expected to demonstrate proficiency in language, research skills, or knowledge in collateral research areas appropriate for the student's research interests as determined by the Supervisory Committee and the Departmental Graduate Committee. Specific requirements and procedures for the Ph.D. degree are printed in the Graduate Studies Bulletin of the University of Nebraska-Lincoln.

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School Psychology

Students may take work leading to a recommendation for certification as a school psychologist. A minimum of thirty semester hours of work beyond the Master’s degree is required for the recommendation. Filing of an acceptable plan of study with the Graduate Office will be required. Each student will arrange their programs according to the subject matter areas below. In order to meet the requirements for the Master of Science in Educational Psychology or its equivalent, the student may choose the following requirements for the Master of Science in Educational Psychology or its equivalent. Since individual students may have widely varying backgrounds, considerable flexibility is allowed in choice of electives. However, the final decision on the appropriateness of a program rests with the Psychology Committee. When students are accepted into the program in order to facilitate individual program planning, the student’s advisor should be a member of the Psychology Committee.

1. Required Courses in Psychological Methods
   - Psychology 831M (or 431) Psychological and Educational Testing
   - Psychology 800V The Profession of Psychology
   - Psychology 853V Individual Tests II
   - Psychology 854V Advanced Educational Psychology
   - Psychology 958 Personality Assessment
   - Psychology 979 Topical Seminar in School Psychology (3-9 hours)

   One of the following three courses:
   - Psychology 855V Introduction to Therapeutic Techniques with Children
   - Psychology 857V Behavior Modification
   - Psychology 859M Applied Behavior Analysis

2. Required Professional Education Courses
   - EDAD 835V Foundations of Educational Administration and Supervision
   - Eled 843V Introduction to Curriculum Planning-Elementary
   - EED 830V Emerging School Curriculum

3. Required Supporting Work
   - One to three courses in basic psychology (outside the student’s area of specialization) and/or one to three courses in Special Education, Counseling, and Social Work, or other courses in education fields other than those specified as requirements. The student must also have had course work in both learning and developmental psychology.

4. Practicum in School Psychology
   - A minimum of 200 clock hours are required for certification in Nebraska. The general rule is that 50 clock hours is one credit hour. The student must have a minimum of 4 credit hours of practicum including testing and intervention experience. At least half of the experiences must be in a school setting.

Psychological Assistant

Students who are pursuing work toward endorsement in Nebraska as a Psychological Assistant must simultaneously complete the following requirements for the M.A. or M.S. Those seeking such endorsement degree must be approved by the Psychology Department in order to enroll in courses included in the plan of study for the degree. The student’s practicum is also approved by the Psychology Committee prior to initial enrollment.

Recommendation for Certification

Upon completion of the approved program of study, the student requests review of the School Psychology Committee’s recommendation for certification as a school psychologist or psychological assistant. The student is expected to have completed the program satisfactorily (B or better) and maintain a minimum grade point average of 3.0 in all core courses. Students in training is expected to meet the professional standards of school psychology. The student in training is expected to have in accordance with the ethical guidelines of the American Psychological Association and the National Association of School Psychologists.

NOTE: The requirements for the School Psychology Program and/or for certification as a school psychologist by the State Department of Education are presently under review and are subject to change without published notice.

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.

Administrators are required for a wide variety of governmental programs and students in the M.P.A. program will likely come from widely differing backgrounds. Some may come from current public employment while others may enter 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 the following in each of the following: Introduction to Public Administration, Accounting, and Statistics. The department will recommend a provisional admission to students with little or no background to introductory courses in Public Administration without having had an introductory course in Public Administration. The student’s advisor should be a member of the Departmental Graduate Committee.

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

Degree Requirements

Thirty-six hours consisting of thirty hours of course work plus 6 hours of internship in a public agency for 4-12 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. Students taking the internship must have an internship plan approved by the departmental graduate committee upon application for candidacy. In lieu of internship, if waived, the student must complete an approved course work. Eighteen hours of the course work must be at the 800V level. A comprehensive written final examination is required.

Admission to Candidacy for Graduate Degree

It is the student’s responsibility to make application for candidacy in the degree as soon as he/she can be considered. The student’s advisor shall advise the student on the nature of the requirements for admission and on the criteria for candidacy. The qualifications are: (1) the score on the Graduate Record Examination must be on file in the Graduate Office; (2) two hours of graduate credit must have been completed at this University; and (3) a grade average of B+ with no grade lower than C; and (4) removal of all deficiencies specified for admission.

As a rule, no degree can be awarded in the same semester as admission to candidacy 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. Both the major and minor prerequisites should be fulfilled and completely planned at this time and the applications should be signed by both the major and minor advisors. The application form and the plan of study should be filed in the Graduate Office and copies should be provided for the major advisor, the minor advisor, and the student’s primary advisor. 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 advisor if the student’s standing is concerned. The minor advisor if the minor is concerned, and the approval of the UNO Dean for Graduate Studies and Research.
Courses Required of all Options

P.A. 400M. Public Budgeting or 848V Seminar in Public Financial Management if credit has been earned in CRP 440/840M
P.A. 841M. Public Personnel Management or 846V Seminar in Public Personnel Administration if credit has been earned in CRP 441/841M
P.A. 800V. Seminar in Research Methods in Political Science and Public Administration
P.A. 842V. Seminar. Introduction to Public Organizations
P.A. 844V. Seminar in Organization Development in Public Agencies
P.A. 803U-840U. Internship

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

P.S. 804M. The Legislative Process
P.S. 805M. The Judicial Process
P.A. 843M. Municipal Administration
P.A. 810V. Seminar in Public Administration
Econ 850M. State and Local Finance
P.S. 815V. Seminar in Public Law
P.A. 830V. Seminar in Public Policy
P.A. 846V. Seminar in Public Personnel Management
P.A. 848V. Seminar in Public Financial Management
P.A. 860V. Seminar in Administrative Law
P.A. 881V. Urban Seminar in Metropolitan Planning and Development
Econ 887V. Seminar in Regional Economics
P.A. 892V. Readings in Public Administration
P.A. 894V. Research in Public Administration

Gerontology Option (15 hours to include the following plus one more course at the 800V level selected in consultation with Adviser to fit the students particular needs.)

Gerontology 811M. Applied Social Gerontology
Gerontology 855M. Health Aspects of Aging
Gerontology 858M. Gerontology Psychology
Gerontology 892M Special Studies in Gerontology

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

Geog 812M. Urban Geography
P.S. 843M. Municipal Administration
Econ 850M. 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 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.)

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

Required courses:

CRP 811. Urbanism and Planning in the U.S.
CRP 828. Planning Administration and Implementation

Elective courses:

CRP 813. Planning Process and Theory
CRP 815/815. Housing Renewal and Development
CRP 822. Research Methods for Planning
CRP 913. Planning and the Natural Environment
CRP 915. Planning Within the Intergovernmental Context
CRP 917. Planning With Minority and Low Income Groups
CRP 924. Human Resource Planning

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

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

Transportation

CE 468. Traffic Engineering
CE 484A. 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 Adviser)

SW 800. Human Behavior and the Social Environment
SW 805. Social Welfare Policy and Services
SW 835. Task Group in Practice
SW 852. Social Work Administration
SW 854. Social Welfare Planning
SW 856. Supervision in Social Work
SW 858. Advanced Policy Analysis and Implementation
SW 860. Social Work Practice in Mental Health
SW 866. Social Work Practice in Child Welfare
SW 870. Alcohol Abuse: Comprehensive Treatment Program
SW 890. 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 be custom designed for the student at the discretion of the Graduate Program Committee of the Biology Department.) Students selecting this option must be approved for entrance into the graduate program by both the Department of Public Administration and the Department of Biology.

Biology 813V. Environmental Biology
Biology 815V. Plant Ecology

The Law Enforcement Option (15 hours to include CJ 801V. Seminar in Criminal Justice Planning and Administration, 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 800V. Comparative Law Enforcement Systems
CJ 804V. Seminar in Community Services and Treatment
CJ 824V. Seminar in Criminal Intervenence
CJ 807V. Theoretical Criminalology
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

SECONDARY/POST-SECONDARY EDUCATION

Major in Secondary Education

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

To pursue degree in the Department, students must 18 hours of graduate work and no more than 18 hours of completed course work be included in the proposed program of graduate studies.
Master of Science (with Minor)

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

<table>
<thead>
<tr>
<th>AREA</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>I. SED Core</td>
<td>Min 6</td>
</tr>
<tr>
<td>SED 825 — Seminar in Secondary Education</td>
<td>Max 6</td>
</tr>
</tbody>
</table>

Plu one of the following:

SED 900 M — Problems: Post-Secondary/Higher Education
SED 830 V — Seminar for Cooperating Teachers
SED 830 V — Emerging School Curriculum
SED 831 V — Analysis of Teacher Behavior
SED 846 V — Simulation Gaming Laboratory for Secondary Teachers
SED 930 V — Seminar in Applications of Non-Verbal Communication Theory

IV. Related Professional Courses

V. Related Academic Courses

Total: 36 hours

*Minimum of 15 hours of SED courses must be included in each Plan of Study. Minimums or Maximums are determined by advisor.

**Minimums or maximums are determined by advisor.

Master of Science (without Minor)

Students seeking the Master of Science Degree with a major in Secondary Education and no minor are required to select course work from the five areas indicated below. Minimum and maximum hours that must be included from each area are indicated where such limits are applicable. Course names or types included in each area are indicated where appropriate.

<table>
<thead>
<tr>
<th>AREA</th>
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<tr>
<td>I. SED Core</td>
<td>Min 9</td>
</tr>
<tr>
<td>SED 825 — Seminar in Secondary Education</td>
<td>Max 21</td>
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Plu one of the following:

SED 900 M — Problems: Post-Secondary/Higher Education
SED 830 V — Seminar for Cooperating Teachers
SED 830 V — Emerging School Curriculum
SED 831 V — Analysis of Teacher Behavior
SED 846 V — Simulation Gaming Laboratory for Secondary Teachers
SED 930 V — Seminar in Applications of Non-Verbal Communication Theory

IV. Related Professional Courses

V. Related Academic Courses

Total: 30 hours

Students who seek the Master of Science Degree must take a written Comprehensive Examination. The examination is administered in two parts. Part I must be taken after the student has completed 15 hours of graduate work and before more than 24 hours are completed. This portion of the examination will deal with concepts common to the programs of all students who enroll in the Department. Part II of the examination is administered during or after the semester or summer session in which the first course of the plan of study 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 by Part I.

Registration for Part II of the examination must be made with the Department no later than the end of the first week of the semester in which the examination will be taken. 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.

SOCIAl WORK

The Profession of Social Work

Social work is one of the “helping professions” concerned with the quality of human life. Specifically, the social worker is concerned with man’s ability to function meaningfully and effectively in transactions with his environment (i.e., his family, friends, associates, and the community at large). The social worker brings systematized knowledge to bear on his dealings with people individually in families, groups, and communities, and also with social institutions within the society and as intermediary to problem solving for the general welfare as well as to help the people, families, and groups 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 in social work, requires the same 42 credit hours plus up to 22 graduate credit hours of social work
SOCIETY

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

Examinations: Both the M.A. and M.S. (see below) degree programs with majors in sociology require the incoming student to complete an examination covering basic concepts and theorists of the field. The examination is used in counseling the student in his degree program. In addition the student must demonstrate proficiency in sociology through successful completion of four comprehensive examinations.

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

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

Master of Arts

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

Master of Science with a Major in Applied Sociology

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

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

Colloquia

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

SPECIAL EDUCATION

Graduate Requirements—STUDENT TEACHING

Students needing SPED 872, SPED 873, and/or SPED 850, SPED 851, SPED 852, must submit a completed application form for student teaching/practicum signed by their adviser before March 15 for a fall or/and summer placement and by October 15 for a spring placement.

Under no circumstances can a student take both SPED 872 and SPED 873 or SPED 830, 851 and 852 during the same semester.

Master of Arts: Speech Pathology

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

1. Submit two letters of recommendation from people who know your undergraduate work well.
2. Pass an examination to determine adequate personal voice and speech proficiency and adequate hearing acuity for speech (Administered by the Speech and Hearing Clinic of the University).
3. Have successfully completed a minimum of twenty-four semester hours of work preparatory to admittance to the major. These hours are to include the following courses or their equivalents:
   - SPED 140, Introduction to Communication Disorders
   - SPED 433, Speech Reading and Auditory Training
   - SPED 437, Hearing Disorders
   - SPED 438, Speech Science I: Speech Mechanisms

Required Courses:

- SPED 439, Hearing Science
- SPED 443, Speech Pathology I: Childhood Language and Articulation
- SPED 444, Speech Pathology II: Rhythm and Symbolization
- SPED 445, Speech Science II: Experimental and Applied Phonetics
- SPED 445, Speech Science II: Research Methods
- SPED 450, Communication Disorders in Speech Pathology
- SPED 451, Basic Clinical Practicum in Speech Pathology
- SPED 475, Hearing Disorders
- SPED 837, Medical and Auditory Training
- SPED 850, Advanced Clinical Practicum in Speech Pathology (externship)
- SPED 852V, Advanced Clinical Practicum in Speech Pathology (externship)
- SPED 860, Diagnostic Methods in Communication Disorders
- SPED 860V, Advanced Audiology
- SPED 870, Seminar in Special Education
- SPED 899V, Thesis

Elective Courses:

1. Required Courses:
   - SPED 870V, Seminar in Special Education

2. Elective Courses: Courses in the area numbered 800V or above.

3. Thesis:
   - Students may choose any of the courses in the area numbered 800V or above.

4. 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.

   Master of Arts: Mental Retardation

The Master of Arts degree with a major in mental retardation is a program primarily designed for persons certified or have near certification in special education. It involves a concentrated course of study designed to improve and advance competencies in the area of mental retardation and to prepare students for teaching, counseling, and administration in a related field of interest. The following course requirements include:

1. Applicants to the M.A. degree program with a major in Mental Retardation must be approved by the Dean for Graduate Studies and Research and the major advisor.
2. Applicants should have a teaching certificate in special education or be within 15 credit hours of certification.
3. Students may undergo course work which will lead to:
   - a major of 24 hours in mental retardation.
   - a thesis not to exceed six semester hours.

   OR:
   - a major of 15 semester hours in mental retardation.
   - a minor of nine semester hours in a related field of interest.
   - a thesis not to exceed six semester hours.

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

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

   6. Subject to review of the applicant's transcripts and related experiences with retarded children, required courses may be selected from the following:
      - Required Courses:
         - FED 801V, Introduction to Research
         - SPED 803, Seminar in Special Education
         - SPED 827U, Practicum in Special Education
         - SPED 899V, Thesis
      - Elective courses may be chosen from any of the 800V level courses within the major and minor area of study.
Master of Science: Reading

The Master of Science degree with a major in reading conforms to standards of the International Reading Association. Applicants for admission to the program, the student is recommended for K-12 endorsement in reading in Nebraska.

I. Core Professional Courses
   1. Required Courses
      a. Course work in reading courses SPED 911, 912, 813V
         18 hours
   2. Related Professional Courses
      a. Including Introduction to Research and Selected work in areas such as education, special education, and psychology.
      6 hours
   3. Related Coursework
      a. Courses in such areas as education, secondary education, and psychology.
      12 hours
   b. and/or the various subjects are to be considered under sections I and II.

Master of Science: Speech Pathology

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

1. Submit two letters of recommendation from people who know your undergraduate work well.
2. Pass an examination to determine your knowledge in the area of speech pathology.
3. Successfully completed a minimum of twenty-four semester hours of work in psychology.
4. The program will be completed in four years.
5. The following courses and their equivalents:
   a. SPED 423, Speech Reading and Auditory Training
   b. SPED 437, Hearing Disorders
   c. SPED 438, Speech Science I: Speech Mechanics
   d. SPED 439, Hearing Science
   e. SPED 443, Speech Pathology I: Childhood Language and Articulation
   f. SPED 444, Speech Pathology II: Rhythm and Symbolization
   g. SPED 445, Speech Science II: Experimental and Applied Phonetics
   h. SPED 450, Communication Disorders in the Elementary and Secondary Schools
   i. SPED 475, Childhood Language Disorders
   j. SPED 870, Seminar in Special Education

3. Sixty-four hours of course work and practicum. These hours may be taken from the following:
   a. Required Courses
      i. SPED 201V, Introduction to Research
      ii. SPED 846V, Diagnostic Methods in Communication Disorders
      iii. SPED 848V, Advanced Audiology
      iv. SPED 851V, Advanced Practicum Speech(Speeches)
      v. SPED 851V, Advanced Practicum Speech (Extemporaneously)
      vi. SPED 871V, Seminar in Speech Pathology
      vii. SPED 870, Seminar in Special Education
   b. Elective Courses
      i. Elective Courses in Communication Disorders
         a. Students may choose any of the courses in the area numbered 810 or above.
      ii. Elective Courses in Related Areas
         a. 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.
      iii. Elective Courses in Related Areas
         a. 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.
      iv. A Nebraska pre-standard certification and a CED provisional certification will be recommended upon satisfactory completion of the program.

Master of Science: Teaching the Disabled

The Master of Science degree with a major in teaching the hearing impaired is based on the standards established for certification of teachers of the hearing impaired as adopted by the state board of education. Applicants for admission to the program, the student is recommended for K-12 endorsement in teaching Nebraska.

I. Core Professional Courses
   1. Required Courses
      a. Course work in graduate courses SPED 911, 912, 813V
         18 hours
   2. Related Professional Courses
      a. Including Introduction to Research and selected work in such areas as education, special education, and psychology.
      6 hours
   3. Related Professional Courses
      a. Including selected work in such areas as guidance and counseling
      12 hours
   b. and/or the various subjects are to be considered under sections I and II.

II. Electives

1. Required Courses
   a. SPED 301M, History, Education and Guidance of the Deaf...
      2 cr. hrs.
   b. SPED 311M, Teacher Training in the Deaf...
      2 cr. hrs.
   c. SPED 312M, Teaching Speech to the Deaf I...
      2 cr. hrs.
   d. SPED 313M, Teaching Language to the Deaf I...
      2 cr. hrs.
   e. SPED 314M, Teaching Language to the Deaf II...
      3 cr. hrs.
   f. SPED 315M, Teaching Language to the Deaf III...
      3 cr. hrs.
   g. SPED 316M, Teaching Language to the Deaf IV...
      3 cr. hrs.
   h. SPED 317M, Hearing Loss and Audiology...
      3 cr. hrs.
   i. SPED 320V, Special Projects...
      3 cr. hrs.
   j. SPED 321V, Seminar in Special Education...
      3 cr. hrs.
   k. SPED 322V, Introduction to Research...
      3 cr. hrs.
   l. SPED 323V, Curriculum Planning for the Disabled...
      3 cr. hrs.
   m. SPED 324V, Basic Student Teaching...
      3 cr. hrs.
   n. SPED 325V, Advanced Student Teaching...
      3 cr. hrs.
   o. SPED 326V, Research Projects...
      3 cr. hrs.

2. Thirty hours of course work and practicum will be required.

3. Competency in manual communication is required for student teaching.

Master of Science: Teaching the mentally Retarded

The Master of Science degree with a major in mental retardation provides broad study investigations and research related to social conditions necessary for greater understanding of the mentally retarded children. State certification in EMH and TMH teaching are also available through this program. The following program requirements must be fulfilled:

1. Applicants to the M.S. degree with a major in mental retardation must be approved by the Dean for Graduate Studies and Research and the Major advisor.
2. Applicants who hold a valid teaching certificate will be required to take preparatory courses in teacher education (the student will be subject to a review of the applicant's transcript and his/her related experiences in teaching children).
3. To be admitted as candidates for a M.S. degree with a major in Mental Retardation the student must have successfully completed twelve hours of course work and passed a comprehensive written examination covering these first twelve hours.
4. Each candidate, having successfully completed thirty hours of course work and practicum, and enrolled for their last six hours, will be required to pass a final written and oral examination.
5. Thirty-six hours of course work and practicum may be taken from the following required and elective courses:

   a. Required Courses
      i. SPED 201V, Introduction to Research...
         3 cr. hrs.
      ii. SPED 444V, Diagnostic Methods in Communication Disorders...
         3 cr. hrs.
      iii. SPED 445V, Speech Science II: Experimental and Applied Phonetics...
         3 cr. hrs.
      iv. SPED 450V, Communication Disorders in the Elementary and Secondary Schools...
         3 cr. hrs.
      v. SPED 475V, Childhood Language Disorders...
         3 cr. hrs.
      vi. SPED 476V, Seminar in Special Education...
         3 cr. hrs.
      vii. SPED 870V, Seminar in Special Education...
         3 cr. hrs.
      viii. One course surveying language difficulties or other equivalent course...
         3 cr. hrs.
      ix. SPED 871V, Advanced Observation and Student Teaching...
         3 cr. hrs.
      x. SPED 872V, Seminar in Special Education...
         3 cr. hrs.
      xi. One course surveying language difficulties or other equivalent course...
         3 cr. hrs.
      xii. SPED 873V, Language Development of Exceptional Children...
         3 cr. hrs.
      xiii. One course concerning evaluation techniques or other equivalent course...
         3 cr. hrs.
      xiv. SPED 874V, Diagnosis of Learning Disabilities...
         3 cr. hrs.
      xv. Psych 832V, Testing and Measurements...
         3 cr. hrs.
      xvi. Psych 835V, Psychological and Educational Testing...
         3 cr. hrs.
      xvii. SPED 818M, Reading Diagnosis and Remediation for the Elementary Classroom Teacher...
         4 cr. hrs.

   b. Elective Courses
      i. Elective Courses...
         36 cr. hrs.
At the end of Step II, students will enter Step III which is the candidacy level. Step II combines both theory and practicum in preparing the student in the analysis of children's learning and emotional behavior and the application of intervention techniques relative to the student's own learning problems. During this step, students must submit to the Graduate College a completed Application for Candidacy Form. Courses for Step II include the following:

- Required: (13 hours)
  - SPED 895V-Basic Diagnosis of Learning Disabilities (3)
  - SPED 896V-Advanced Diagnosis of Learning Disabilities (4)
  - SPED 897V-Clinical Teaching in Learning Disabilities (3)
  - SPED 891M-Classroom Techniques for Behavior Control (3)

- Electives:
  - SPED 862M-Curriculum Planning for the Disabled (3)
  - SPED 811V-Diagnostic and Remedial Instruction in Reading (3)
  - SPED 887V-Diagnostic and Remedial Techniques for Early Childhood (3)
  - Psy 831V-Psychological and Educational Testing (3)
  - Cook 813V-Child Assessment in Elementary School Guidance (3)
  - SPED 891V-Diagnostic and Corrective Instruction (3)
  - Ed 943V-Introduction to Curriculum Planning-Elementary (3)
  - Ed 858M-Learning Materials for Early Childhood Education (3)
  - SED 830V-Emerging School Curriculum (3)
  - SED 877V-Vocational Curriculum Construction (3)

- Other secondary methods courses
  - SPED 810V-Special Projects
  - SPED 880V-Special Projects

Comprehensive Evaluation - At the end of Step II and prior to entering Step III, each student will submit to the Graduate College 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 (c) be dropped from the program.

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

- Required:
  - SPED 873V-Advanced Observation and Student Teaching in Special Education (3)
  - SPED 872V-Basic Observation and Student Teaching in Special Education (3)

Master of Science: Teaching the Emotionally Disturbed

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

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

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 in the Emotionally Disturbed, K-12.

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

3. Courses
   - Step I — 12 hours
     Required
     FED 801, Introduction to Research — 3 hours
     SPED 880, Emotional/Social Development of Children and Youth — 3 hours
     SPED 840, Learning Disabilities — 3 hours
   - Electives
     SPED 806, Interdisciplinary Approaches to Developmental Disabilities — 3 hours
     PSY 844, Abnormal Psychology — 3 hours
     PSY 843, Personality Theories — 3 hours
     PSY 859, Psychology of Exceptional Children — 3 hours
     PSY 851, Advanced Educational Psychology — 3 hours
     Comprehensive Examination
   - Step II — 12 hours
     Required
     SPED 893, Diagnosis of Learning Disabilities — 3 hours
     SPED 872, Basic Observation and Student Teaching in Special Education — 3 hours
     SPED 801, Classroom Techniques of Behavior Control — 3 hours
   - Electives
     SPED 896, Advanced Diagnosis of Learning Disabilities — 3 hours
     SPED 813, Diagnosis and Remedial Instruction in Reading — 3 hours
     SPED 875, Childhood Language Disorders — 3 hours
     PSY 831, Psychological and Education Testing — 3 hours
     PSY 863, Techniques of Programmed Instruction — 3 hours
     PSY 856, Learning in Children — 3 hours
     PSY 857, Behavior Modification — 3 hours
     Comprehensive Examination
   - Step III — 12 hours
     Required
     SPED 871, Parent/Professional Relationships — 3 hours
     NPI 852, Group Dynamics — 2 hours
     SPED 873, Advanced Observation and Participation in Special Education — 3 hours
     SPED 876, Seminar in Special Education — 3 hours
     SPED 880, Special Projects — 1 hour
     Comprehensive Examination.

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.

Degree Requirements

Thirty-six semester hours of course work are required. A core of six required courses shall be completed, plus nine credit hours must be taken from one of three areas of concentration. The required courses include Urban Studies 883V, 884V, 880V, 892V, 822V, a course in research methods; and one of the following: History 844M, Geography 813M, or Community and Regional Planning 811M. Courses applicable to the area of concentration may include, but are not necessarily restricted to, Political Science 892M, 843M, 880V; Public Administration 840V, 842V, 844V, 846V, 848V; Geography 881V, Psychology 891V; Sociology 810M, 841M, 822M, 827M, 899M, 880M, 811M; Gerontology 810M, 892M; Counseling 898M, 822V, 827V, Community and Regional Planning 811M, 813V. A maximum of nine hours of optional credit may be selected from Economics 885V, 886V, 887V, 888V; History 843M, 811M; Geography 881V, 813M; or many of the courses listed above.

Eighteen hours of the course work must be at the 800V level. A comprehensive final examination is required, although 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 (Cl) are meant to serve students within the education profession by broadening their skill levels, making available merged talents of collegiate faculty and functioning within different or multi-level educational settings.

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

Gerontology
The Gerontology Program does not offer a degree. Graduate courses are offered to fulfill requirements for a minor field or as selected courses on a plan of study. Therefore, the courses offered are not concentrated in one particular area, but are offered in a variety of areas to afford the student the opportunity of specializing in Gerontology within his major field of study or as a non-degree student.
Persons admitted to the Gerontology Program may earn the Certificate in Gerontology upon completion of at least fifteen semester hours of coursework in gerontology plus an approved practicum. The Certificate in Gerontology program can serve as a cognate area for graduate candidates in many of the human service and behavioral science degree programs.

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

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

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

Art

Studio Art

B35M Advanced Sculpture (3) Advanced work in area of student’s choice with facilities for oxy-acetylene welding, arc welding, and wood working. Prereq: Art 331 and permission of instructor.

B41M Advanced Painting (3) Introduction in oil painting and related media permits each student the time and environment to work and develop individually. Strong emphasis on knowledge of contemporary art. Prereq: Art 341 and permission of the instructor.

B51M Advanced Techniques in Printmaking (3) Intaglio, lithography, collagraph, and the embossed print, stressing color and technical proficiency in the various media. Prereq: Art 351 and permission of instructor.

G61/G861M Advanced Ceramics (3) Advanced work on the potter’s wheel, plate composition, loading and firing of a high-fire kiln. Prereq: Art 361 and permission of the instructor.

B31V Graduate Sculpture (3) Advanced problems in sculptural media. Prereq: Art 431 and permission.

B41V Graduate Painting (3) More complex problems in the oil medium and related material. Prereq: Permission and 12 credit hours of painting.

B81V Graduate Printmaking (3) Advanced problems in printmaking in either intaglio or lithography techniques. Prereq: Art 451 and permission.

Biology

B33J Microtechnique (3) A course in the techniques of fixation, dehydration, staining, cleaning and mounting biological material in the manufacture of microscope slides. Prereq: Two years of Biological Sciences.

B34J Ecology (4) Study of interrelationships between organisms and their biotic and abiotic environment, including population biology, community dynamics, biotic interactions, and evolution. Prereq: Biology 145 and 175. Graduate standing.

B85J Morphology of Plants (5) An evolutionary survey of the major plant groups, including consideration of the morphology, ecology, life history, research use, and economic importance of each group. Prereq: Biology 145, Gen. Botany, or permission. Grad.


B373/873J Fauna of The Great Plains (3) A survey of the common animal groups found in the great plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands. Prereq: For 373, Biology 145, junior-senior. For 873J, Biology 145.

B374/874J Histology (4) Analysis of the microscopic anatomy of tissues and organs, their adaptations and functional significance. Prereq: For 374, Biology 175, and a course in vertebrate anatomy, or permission of the instructor. Junior-senior. For 874J, Biology 175, and a course in vertebrate anatomy, or permission of the instructor.

B384/884J Embryology (4) A study of the principles of development in multicellular organisms, including current concepts derived from experimental embryology, with emphasis on vertebrate morphogenesis. Prereq: General Zoology, Biology 175, and a course in vertebrate anatomy.

B410/810M Plant Geography (3) A study of the worldwide distribution of major vegetation types and the ecological and physiological factors that determine their location. Special attention to North America is included. Prereq: Biology 102 and Biology 145, botany, or permission.

B422/812M Problems in Ecosystem Management (3-5) Directed study in the application and evaluation of methods used for managing native and reestablished ecosystems; the principal study site is the 65 ha. Allwine Prairie Preserve. Strong emphasis is placed on field work. Prereq: Graduate standing in Biology and permission of the instructor required.

B414/814M Cellular Biology (4) This course is a comprehensive study of the structure and function of plant and animal cells. Prereq: For 414, Biology 145 and 175, organic chemistry; or permission of the instructor. Junior-senior. For 814M, Biology 145 and 175, organic chemistry; or permission of the instructor.

B418/818M 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: For 418, Biology 145 and 175, and organic chemistry. Junior-senior. For 818M, Biology 145 and 175, and organic chemistry.

B423/823M Organic Evolution (3) A study of organic evolution in terms of evidences which support the theory and the mechanisms involved in the process. Prereq: For 423, Biology 214, Junior-senior. Lecture and discussion only. For 823M, Biology 214, Lecture and discussion only.

B427/827M 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.
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behavior as a functional unit. Prereq: For 427, Biology 175 and Psychology 101 or permission of the instructor. Junior-senior. For 872m, Biology 175 and Psychology 101 or permission of the instructor. Lecture only. Same as Psychology 427/827m.

826M Animal Behavior Laboratory (1) Laboratory for study of animal behavior. Concurrent with 826M. Emphasis is placed on an ethological emphasis. Classical laboratory experiments and independent studies will be conducted. Prereq: Biology/Psychology 427/827m or concurrent enrollment.

433/833M Bryology (1) A course in the identification, classification, ecology, and distribution of bryophytes. Prereq: For 433, Biology 344 or permission of the instructor. Junior-senior. For 833m, Biology 344 or permission of the instructor. Junior-senior. For 833m, Biology 344 or permission of the instructor. Junior-senior. For 833m, Biology 344 or permission of the instructor.

434/844M Ichthyology (4) A study of the biology of fishes including their evolution, anatomy, physiology, ecology, distribution, classification and identification with emphasis on North American groups. Field trips. Prereq: Biology 285 or 478 or permission from instructor. Graduate student.

494/844M Herpetology (4) The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification with emphasis on North American groups. Prereq: Biology 175. Graduate student.

855M Developmental Biology (4) A study of the principles of development, including multicellular organisms. Current concepts of interactions at the genetic, cellular, and tissue levels will be included. Prereq: Biology 145, Biology 175, or permission of the instructor. Graduate student.

498/888M Invertebrate Zoology (4) A field-oriented course emphasizing the taxonomy and morphology of invertebrate animals. Prereq: For 498, Biology 175. Graduate student.

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

492/892M Parasitology (4) Taxonomy, morphology, physiology, life history, dissemination, control of the parasitic protozoans, helminths, and arthropods. Prereq: For 492, Biology 145 or permission of the instructor. Graduate student.

494/894M Entomology (4) A study of insects, their classification, morphology, physiology, behavior, life histories, ecology, and evolution. Prereq: For 494, Biology 175. Junior-senior. For 894m, Biology 175. Graduate student.

499/899M Ornithology (4) An introduction to the study of birds including their anatomy, physiology, behavior, ecology, classification and identification with emphasis on birds of North America. Prereq: Biology 175; junior-senior. For 899m, Biology 175. Graduate student.

801V Seminar in Biology (1) A study of current research in any area of biology. Prereq: Biology 478 or permission of the instructor. Graduate student. Prereq: Biology 478 or permission of the instructor.

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

844V Current Topics in Botany (2) Survey of recent literature in one or more of the following areas of botany: Physiology, morphology, anatomy, ecology, taxonomy, economic botany, geobotany. For 844V, Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of the instructor. Junior-senior. For 874m, Biology 175, vertebrate anatomy, organic chemistry, and physics, or permission of the instructor. Graduate standing.

805V Current Topics in Microbiology (2) Survey of recent literature in one or more of the following areas of microbiology: Biochemistry, physiology, genetics, taxonomy, ecology, medical microbiology and immunology, virology, industrial microbiology. Prereq: Grad. Standing in biol. Biol 864m, or permission of the instructor.

890V Current Topics in Zoology (2) Survey of the recent literature in one or more of the following areas of zoology: taxonomy, morphology, myology, ecology, physiology, behavior, zoogeography. Prereq: Graduate standing and permission.

813V Environmental Biology (3) A study of the effects of environmental factors on organisms concentrating on the areas of population dynamics, community interaction and ecosystems theory. Prereq: Genetics, laboratory, and a written report. Prereq: Graduate standing in biology and permission of the instructor.

815V Advanced Ecology (4) Advanced study of populations, communities, and ecosystems, including methods of analysis; may require two day field trips. Emphasis may be placed on plant or animal ecology. Prereq: Biology 334 or 350 Ecology or permission.

816V Experimental Genetics (3) Lecture and laboratory. Study of the interaction of genes with organisms such as drosophila spp., Neurospora spp., E. coli and t.b. phages. Prereq: Biology 214. Graduate student.

819V Advanced Virology (3) A study of principles and techniques in animal and plant viromatics. The course will focus on the species pricer. Prereq: Genetics, laboratory, and a written report. Prereq: Junior-senior. For 819V, Junior-senior. For 819V, Graduate standing in biology and permission of the instructor.

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

835V Advanced Topics in General Physiology (3) A study in greater depth of such topics as photosynthesis, temperature-regulated phenomena, and cytogenetic physiology. Lecture, laboratory, and written report.

836V Environmental Physiology (3) A detailed study of selected dynamic environmental factors and mechanisms of physiological adaptation by some selected taxa. Prereq: General physics, algebra, animal physiology, or permission of the instructor.

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

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Black Studies
450/850M international African American Field Research (3-6) A study of the field observations of selected black communities in the United States in relation to counterparts in other countries. Field seminars in Africa, the Caribbean, South America, section w: East Africa; x: West Africa; y: Caribbean; z: Latin America. Prereq: Permission of the instructor or graduate advisor. (Same as Pol Sci 450/850m)

Business Administration
8111 Survey of Accounting (3) The uses of accounting for purposes of control and decision-making for managers, as auditors, as consultants, as managers, as investors, as creditors and others. Prereq: This course is for the student who has not taken principles at the undergraduate level.

8171 Quantitative and Statistical Methods for Business Decisions (3) Elementary concepts in quantitative and statistical methods. Emphasis is placed on multiplicity of applications to a wide variety of methods. Prereq: Graduate standing and one year of college mathematics.

8181 Analytical Foundations of Economics (3) Fundamental principles of macro- and micro-economic theory for graduate students in business. The development of modern aggregate theory is examined along with an applied analysis of the business firm, market structure, production, possibilities, and cost factors. Prereq: Open to MBA candidates and other graduate students desiring this background. Open to graduate students who have successfully completed Economics 201 and Economics 202 or their equivalents.


800V Quantitative Analysis (3) The study of quantitative techniques and models and their application to business decision making. Prereq: Microeconomics 213 or BA 816J.

8101V Business and Society (3) An Examination of the diversity of societal forces that determine the base, the boundaries, and the content of business concerns and the role of ethics in business and economics. The student will become familiar with these techniques through text material, journal studies and actual application. Prereq: Microeconomics 213.

812V Research Methods in Economics and Business (3) A study of current research methods in economics and business and economics. The student will become familiar with these techniques through text material, journal studies and actual application. Prereq: Microeconomics 213.

813V Business Information Systems (3) A study of how computers are used in business and economics. The student will become familiar with these techniques through text material, journal studies and actual application. Prereq: Microeconomics 213.
Business Conditions Analysis (3) This course is concerned with the statistical measurement and analysis of total business conditions, and the adoption of business policies to achieve desired business conditions. Emphasis is placed upon the practical application of the statistical techniques employed in solving practical problems in business. Prerequisite: BA 831V.

Seminar in Management (3) A student participation course emphasizing current issues and operations in management and operation. Prerequisite: BA 830V and BA 831V.

Marketing Policies (3) A marketing management approach to the determination of policies, with emphasis on decision and problems in marketing. Prerequisites: MK 331 or BA 815J.

Promotional Policies (3) Analysis of the marketing planning process, with emphasis on the development and administration of an effective promotive program, and the use of various media. Prerequisite: BA 830V and BA 831V.

Economic Analysis of the business firm and its environment, with emphasis on market structure, pricing policies and possibilities, and cost functions. Additional consideration is given to the theory of the firm under conditions of perfect and imperfect competition. Prerequisites: Econ 201 and Econ 202. Students with Acc 306 or equivalent should enroll in BA 812V.

Accounting Theory (3) The development of accounting, current accounting theory and principles, and current practices and suggested theory and practice. Prerequisite: BA 820V or Accounting 306 or equivalent.

Controllership (3) An analysis of the concept and basic techniques of the controllership function within both short and long range planning. Prerequisite: BA 820V or BA 812V.

Seminar in Accounting (3) A study of problem areas which may be independent or interrelated in the fields of public, private, and governmental accounting. Prerequisite: BA 820V or BA 812V.

The Environment of Management (3) A study of the interrelationships of internal and external processes and their historical foundations. The component part of the organization's policies are both the intra-organizational processes of managerial planning, decision-making, organizing and controlling as well as the extraneous conditions and factors influencing these processes. A systems framework is used to examine the different types of control systems, and the impact of information technology on the processes of management. Prerequisites: BA 820V or BA 812V.

Chemistry laboratories for Chemistry 465. Chemistry 465, 465L. For 466, Chemistry 865, 865ML.

Biochemistry (3) The study of biochemical processes in living systems, including the study of enzymes, proteins, nucleic acids, and their interactions. Prerequisite: Chemistry 240, 240L. Prerequisites: BA 840V.

Research in Chemistry (Arranged) Provides the student an opportunity for experimental research in a specific area of chemistry. Prerequisite: Permission of instructor.

Transportation Engineering (3) An advanced lecture course in modern chemical reactions. Prerequisite: Chemistry 336 (May be taken concurrently).
niques and their effect on land use, the environment and social and economic development. Economic, operational and control characteristics of land, air and water pollution control systems are discussed. Prereq: For 360, junior standing or permission of the instructor. For 361, graduate standing or permission of the instructor. Not available for graduate credit for students who have completed 350/550M.

440/800M Environmental Quality and Control - Land, Air, and Water (3) Application of environmental engineering, principles and planning for the control and management of the physical environment (land, air and water)including land and water ecosystems, air and water pollution and waste management planning. Prereq: For 440, senior standing. For 800M, graduate standing.

484/826M Environmental Pollution Control (3) An introduction to the engineering principles of control of air pollution, solid wastes,noise and radiation, with emphasis on their relationship to the total environment. Interrelations of air, water, and land wastes are stressed. Prereq: For 426, junior standing in engineering or permission of the instructor. For 826M, graduate standing or permission of the instructor.

485/828M Application of Chemistry to Sanitary Engineering (3) An applications of chemical principles to the analysis and treatment of water and wastewater (Lecture 2, Lab 3). Prereq: CE 228, 229

486/832M Applications of Microbiology to Sanitary Engineering (3) Applications of microbiology to water and wastewater treatment processes and bacteriological examination of water and wastewater (Lecture 2, Lab 1). Prereq: For 429, Civil Engineering 327. For 832M, graduate standing and Civil Engineering 327.


488M Foundation Engineering (3) Subsurface exploration and interpretation; selection of foundation systems; determination of allowable bearing pressures from laboratory and field data. Effects of bearing capacity and settlement of deep foundations on design. Load transfer characteristics of piles and drilled shafts. Prereq: For 488M, graduate standing and Civil Engineering 327.

491/841M Structural Analysis II (3) Analysis of statically indeterminate structures, including continuous beam and frames. Numerical and classical methods of analysis, including introduction to solutions by matrix methods. Effects of temperature and movement of supports. Influence lines. Design of continuous beams. Prereq: For 441, Civil Engineering 340. For 841M, graduate standing.

494/844M Steel Design I (2) An introductory course involving the application of the basic principles of mechanics of materials and the practical techniques in the design of engineering projects. Prereq: For 456, Civil Engineering 431 or Civil Engineering 437 or equivalent. Prereq: Graduate standing and permission of the instructor.

497/857M Environmental Hydrology (3) Introduction to principles of water quality control, with emphasis on the components of the hydrological cycle, weathering, evaporation, surface runoff, infiltration, drainage basin characteristics, streamflow, and precipitation runoff relations. Emphasis is placed on utilizing these variables in forming engineering judgment. Prereq: For 457, Math 131 or equivalent for 497M, and GE 131 or equivalent for 857M. Graduate standing and permission of the instructor.

498/858M Ground Water Engineering (3) The application of engineering principles to the movement of ground water. The influence of the physical and geologic environment on ground water is covered. Prereq: For 498M, graduate standing or permission of the instructor.

460/864M Urban Transportation Planning (3) Development of urban transportation planning, objectives and goals, data collection procedures. Principles of land use and travel forecasting techniques, trip generation and assignment and modal choice analysis. Traffic demand, design, operation and evaluation. Prereq: Upper class standing or permission of the instructor.

462/862M Airport Planning and Design (3) Principles and practices of airport planning and design. Prereq: For 462, graduate standing and permission of the instructor.

474/843M Application of Geology to Engineering Projects (3) A study of the basic principles of geology related to the selection and evaluation of the sites for engineering projects. Prereq: For 474, Civil Engineering 441 or equivalent. Prereq: Graduate standing and permission of the instructor.

475/845M Structural Analysis III (3) Computation of stresses in statically indeterminate structures including beams, and plane and three dimensional frames and trusses using matrix formulations (Finite element method), advanced topics including cutting and pasting, prestress and support displacements, elastic support systems, temperature effects, and restrained systems. Prereq: For 484, Civil Engineering 441 and digital computer methods in engineering analysis. For 485M, Civil Engineering 481 and graduate standing.

486/846M Steel Design II (3) A continuation of Civil Engineering 444, but directed toward the design of building systems. Steel and timber structural systems are studied. Prereq: For 486M, Civil Engineering 444 and graduate standing or permission of the instructor.

487/847M Structural Concrete II (3) The use of reinforced concrete design principles in special applications including beams and footings, and the study of additional design concepts including deflections, prestressing and torsion. Prereq: For 487, Civil Engineering 447 and graduate standing or permission of the instructor.

488/848M Plastic Analysis I (3) Application of the basic principles of plastic analysis to frame structures and plastic collapse envelopes, upper and lower bound theorems, and moment balancing are applied in plastic analysis. Prereq: For 488, Civil Engineering 483 and graduate standing or permission of the instructor.

489/849M Structural Analysis IV (3) Theory and application of systems engineering with emphasis on optimization and simulation techniques for evaluating alternatives in water resource planning and construction. Prereq: For 489, graduate standing and permission of the instructor.

490/850M Water Resources Development (3) Three dimensional frames and trusses using matrix formulations. Member selection and deflection calculations. Prereq: For 490, Civil Engineering 491 and graduate standing or permission of the instructor.

491/851M Water Resources Development (3) Study of representative American speakers and their organizations. The various relationships between the accounting and management aspects will be presented to develop critical thinking skills. Emphasis will be placed on the informational and controlling segments of economic systems. Prereq: For 491M, graduate standing and permission of the instructor.

495/854M Economic Engineering (2) Economic comparison of engineering alternatives. Studies of equipment selection and replacement; cost-benefit analysis, break-even points and minimum-cost control. Prereq: For 495, graduate standing.

498M Reinforced Concrete I (3) A study of the basic principles of mechanics and design for reinforced concrete structural members. Emphasis is placed on flexure, shear, and bond. Prereq: Graduate standing.

499 Graduate Research (Thesis) (1-6) Communication

410/810M History of Mass Communication (3) The American mass media from colonial origins to present, with emphasis on mass communication aspects of literary, intellectual, social and political history, and their reaction to current media issues. Prereq: Graduate standing and permission in Communication or instructor’s permission.

411/811M Development of Rhetorical Theory (3) The development of rhetorical theory and practice.

412/821M Studies in American Public Address (3) Study of representative American speakers from the eighteenth century to the present. Prereq: Nine hours of speech.

417/817M Organizational Communication (3) Communication in relation to problematic social transactions within and between organizations. Theoretical and practicable methodologies and techniques for rehabilitation and then preventing, alleviating, or solving
communication problems in organizational set-
tings will be emphasized. Prereq: An upper-
standing major in Communication or permis-
sion.

442/842M Literary Arts of Journalism (3) Survey of the journalistic works of pertinent American writers through readings, lectures, discussions, and creative writing assignments.

423/823M Public Relations (3) A study of the principles, problems and techniques of the public relations function through lectures, discussions and case histories.

431/831M Political Broadcasting (3) A study of the evolving role of the electronic media in shaping political activities in our contemporary democratic society. Prereq: Political Science 100 or Comm 150. 151.

434/834M Broadcasting History and Regulation (3) A study of broadcasting in the United States and its place in American system of broadcasting. Prereq: Permission of instructor.

435/835S Issues in Broadcasting (3) A study of current economic, legislative and social issues facing the American system of broadcasting. Prereq: Comm 150 or 151.


437/837M Communication Workshop (3) A workshop to explore and develop new communication skills in the form and execution of such processes, and to increase awareness of the pragmatics of communication. Prereq: Comm 339 or permission.

440M Mass Media and Society (3) The study of media as a social institution with particular emphasis on its impact on the life styles and behavior of individuals. Prereq: Consent of instructor.

441/841M Communications Law (3) A discussion of laws, legal issues, court decisions and government regulations which have special application to the mass media, such as libel, privacy, contempt of court, copyright, censorship, and the Federal Communications Commission. Prereq: Consent of instructor. (3) Theories of the First Amendment: Speech and Press (3) An examination of the freedom of speech and press in the United States with particular attention to the freedom of the mass media and their expression of the many attempts at censorship. The course examines the legal and political foundations of the mass media and explores the theories held by some of the country's most prominent legal scholars. Prereq: Consent of instructor. (3) Communication Process Seminar: Transactional Communication (3) This seminar was designed for students preparing for majors in mass communication. It is conducted in transactive (vs. Mass communication) will be emphasized by means of selection from recent developments and contemporary methodologies including General Systems Theory, Modern Heuristic, and General Semantics. Prereq: Graduate
I. Counseling Practicum (3) A study of the methods and techniques of group counseling and its application in student personnel services. Prereq: Coun 890M, or permission of department.

2. Counseling Practicum (2-4) Counseling experience under the supervision of a practicum instructor of the university. Prereq: Coun 820V and permission of department.

3. Guidance Internship (3-6) Field experience in a supervised guidance program and its application in the training of counselors. Prereq: Coun 890M and permission of instructor.

4. Counseling Undergraduate Adults (2) Designed to provide basic information and counseling to undergraduate students. Prereq: Counseling Major and Coun-Gcro 898M or permission of the instructor.

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

6. Elementary School Counseling Practicum (4) Counseling in the elementary setting under the supervision of a counseling professor and a guidance professor of the university. Prereq: Coun 890M and permission of instructor.

7. Elementary Counseling Internship (6) Field experience in an elementary counseling program under the supervision of a counseling professor and appropriate in-school personnel. Prereq: Coun 831V and permission of department.

8. Group Counseling Theory and Practice (3) A course designed primarily for Counselors in training with a combination of theory and experiences indicative of the understanding of effective leadership skills involved in the group counseling process. Prereq: Coun 890M, Coun 829V, Coun 822V, and Coun 827V.

839V Guidance Services and The Disadvantaged Youth (3) A study of the methods and techniques in counseling disadvantaged youth. Prereq: Coun 820V and 824V.

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

847V Practicum in Group Counseling (4) Supervised experience on facilitating group counseling in the university. Prereq: Coun 829V, and as the third course for the group counseling Practicum major. Prereq: Coun 824, 827, 837 and/or permission of instructor.

860 Parent Education (3) Review of literature relative to the role of parents in America and to programs in parent education. Study of the basic concepts in dynamics of group discussion, child development, and family relations with emphasis on application to parent education programs. Same as HD&F 660. Prereq: Gradute standing.


896 Directed Readings in Counseling and Gerontology (1-3) A study of recent and current literature, research, and development of individuals over 60 years of age. Prereq: Coun 890M or permission of the instructor.

897 Personal Values and Aging (1) Course designed to examine the role of self-awareness, personal values and the impact of aging. Prereq: Admission to the Guidance Major and Coun-Gero 898M or permission of the instructor.

897V Clinical Model of Aging (1) Course designed to examine the role of self-awareness, personal values and the impact of aging. Prereq: Coun 890M or permission of the instructor.

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

Criminal Justice

901V Criminal Justice Planning and Innovation (3) A review of the literature in social psychology, public administration and sociology which relate to the effectiveness of alternative strategies of promoting change in criminal justice agencies. Emphasis on research methods, statistical values and attitudes. Prereq: Permission of instructor.

903V Seminar in Administration of Justice (3) Justice in America from the standpoint of the opponent and an exploration of the influence and pressures upon individuals across the criminal justice spectrum who corporately deliver justice to the criminal justice system. Evaluation of the systems of delivery are examined. Prereq: None. Approval of the instructor.

907M Preparation of Instructional Materials (3) A basic course in the production of inexpensive audio-visual materials for the classroom. Graphic, photographic and auditory materials are considered, including such instructional materials as slides, transparencies, still pictures, video-presentations, and exhibits. (F.S.S.F)

890V Special Studies (1-3) A series of intensive courses especially for teachers in service who have been scheduled as regular seminars, or workshops, according to the need. Prereq: Graduate standing and departmental permission.

891V Research Project (1-3) Individual or group study of analysis of the literature in the field of elementary schools. Typical problems will be concerned with curriculum and instruction. Students may have a broad scope of application rather than a specific level. Prereq: Graduate standing and departmental permission.

892V Introduction to the Education of the Gifted (3) The course involves the process of defining and identifying characteristics of giftedness, analyzing associated problems, examining relevant research, and relating these to the overall education of gifted individuals. Prereq: Admission to Graduate College; one year teaching experience.

Drastic Arts

801M-802M Advanced Projects in Dramatic Arts (1-3) Special projects in dramatic arts supplementing regular courses; independent work on major projects; combined study and practice. Prereq: 9 hours of dramatic arts and admission of student to area to be studied and permission of instructor.

806M Children's Theatre Production (3) Study of the methods of direction, design, acting and production of plays for children. Prereq: Consent of instructor. Prereq: A complete children's theatre production or be actively involved in an actual production. Prereq: Undergraduate major in Theatre or permission of the instructor.

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

831M-832M Acting: Historical periods and Styles (Each 3) The fundamental theories and practices of major styles of acting from ancient Greece to the present, including interpretation of outstanding dramatic literature. Prereq: DA 331-332 or permission of the instructor.

844M Directing: Rehearsal and Performance (3) A practicum in play selection, artistic, aesthetic, and production directing and performing. Prereq: DA 101, 206, 263, 331 or permission of the instructor.

851M Costume Design (3) An introduction to the fundamentals of stage costume design, including line, silhouette, organizations and individual styles. Prereq: Consent of instructor.

855M Costume Design (3) An introduction to the fundamentals of stage costume design, including line, silhouette, organization, and development of costume of a production. Prereq: DA 206-207; 351; Art 101, 212.

861M Scene Design (3) Principles of composition perspective and color for the stage; the design of stage settings; the use of perspective; ground plans, elevations and sketches. Prereq: DA 106, 207.

867M Stage and TV Lighting (3) Characteristics and control of light and color and their application to the theatre and television; elementary

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418/818M Collective Bargaining
(3) A study of the history of labor in collective bargaining and its literature from its origins to 1642.

42M Seminar in Theatre History (3) Selected subjects in the history of theatre from ancient to modern times. The subject of the course will change each year, according to the interest of the students and the availability of a qualified instructor. Prerequisite: Permission of the instructor.

43M Seminar in Dramatic Literature (3) A seminar for graduate and advanced undergraduate students which will explore selected subjects in the dramatic literature in depth. Research papers and seminar reports will be required. The subject of the course will change each year. Prerequisite: Permission of the instructor.

81V Seminar in Play Direction (3) An indepth study of the principles of play direction. Prerequisite: Graduate standing and permission of instructor.

825V Technical Theatre Problems (3) Research and dialogue in the aesthetics and physical results of the relationships between dramatic form, technical theatre, and scenic design and lighting from historical and contemporary theatre view. Prerequisite: DA 101, 461, 467, 471 or permission of instructor.

830V Current Topics in Drama (3) A course designed to introduce graduate students in dramatic arts to basic techniques of scholarship, reading, research, and writing about the problem, and preparing the manuscript for its potential publication. Prerequisite: Permission to graduate program in Dramatic Arts.

841V Dramatic Theory and Criticism (3) For advanced students interested in the history and theory of dramatic literature. Important dramatic theories and critical issues from the present to the present. Prerequisite: DA 101 or permission of instructor.

87V Seminar in Contemporary Theatre Aesthetics (3) Research and dialogue in the aesthetic and technical movements in the contemporary theatre. Emphasis on the sources, background, and critical theory of the new style of the twentieth century. Prerequisite: DA 101, 471, 472 and English 323 or permission.

85V Thesis Project (3) Final project for Option II. Prerequisite: Admission to candidacy and the approval of the project proposal.

86V Independent Study (3) Independent research project written under the supervision of an advisor.

Economics
418/818M Collective Bargaining (3) A study of the issues, structures, and procedures involved in collective bargaining. Prerequisite: Economic 315. Fall in even-numbered years.

821M Competition and Monopoly in American Industry (3) An appraisal of the role of competition and monopoly in the American economy: examination of major antitrust decisions, conduct, and performance in a variety of industrial sectors.

822M Advanced Microeconomics (3) A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted with recent theoretical paths hence.

826/926M Evolution of Economic Thought (3) Tracing the evolution of economic thought from the medieval to the Keynesian period. Focus is on the interactions of institutional milieus, the interaction of government and society. Prerequisites: Econ 201 and 202. Fall in even-numbered years.

430/830M Quantitative Applications in Economics and Business (3) An advanced study of modern quantitative techniques to problem solving in the field. Emphasis will be on the employment policies and the application of the methods.

431V Public Utility Economics (3) This course is designed to develop the theoretical and empirical basis for economic analysis of public utilities in general with specific emphasis on the gas, electric, and telephone industries. Prerequisite: Econ 320 and 322, D.S. 212 or permission of instructor.

842M Energy Economics (3) This course develops an understanding of alternative energy sources including gas, oil, coal, nuclear, hydro, solar, and wind energy. Theoretical techniques including specific energy modeling are discussed. Prerequisites: Econ 320 and 322, D.S. 212 or permission of the instructor.

833M Transportation Economics (3) Study of transportation issues and policy with emphasis on economic functions of the transportation systems and the national economy and to the other business sectors, emphasis on government regulation, passenger and freight transport and urban transit and energy and environment issues. Prerequisites: DA 101, 104, 105, 432, and Econ 322, the instructor.

445/645M Monetary Theory and Policy (3) This course traces the development of monetary theory from the classical theory to current macroeconomic theory. Topics covered include evaluation of central bank policies, the monetary theories of Keynes, the neo-Kennedyns, and the neo-classical schools of monetary theory and compared. The implications of each school for monetary policy are examined. Prerequisite: BA 343. Fall in odd-numbered years.

846/666M International Economic Development (3) Problems relating to early stages of economic development: investment priorities, mobilizing savings and policies and programs are studied. Prerequisite: Econ 201 and 202. Spring in even-numbered years.

852V Theory of Public Finance (3) This course is designed to develop the theoretical basis of modern tax and expenditure processes at the national level. Prerequisite: Econ 322 and Econ 282V or permission of instructor.

858V Economics of Government (3) The study of the underlaying assumptions, techniques, and applications of single and multiple regression equation anal-

in economics. Prerequisite: Permission of instructor.

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

835V Seminar in International Economics (3) An analysis of the theory of international trade and the working of the international monetary system. Prerequisites: Econ 365 or 466 or permission of instructor.

840V Independent Study in Topics on Urbanism (1) This course is intended to allow interested graduate students to pursue studies and research on an individual basis under faculty direction. In tapias pertaining to urbanism, the format of the course will be along either of two lines depending on the student's interest. In one respect the course can be devoted to study of an urban issue or urban problem with topical schedule set forth here on an independent basis. In another respect the course can be devoted to field investigations along the lines of the same topical schedule. Prerequisite: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.

865V Seminar in Urban Economics (3) An examination of the theoretical basis for the analysis of urban problems. Prerequisites: Three hours of intermediate microeconomics, and permission of the instructor.

87V Seminar in Regional Economics (3) An examination of the current data and conceptual issues involving regional economic development and planning. This course is intended to allow interested students to pursue special studies in the theoretical and empirical approaches. Prerequisite: Econ 332, 333, or Econ 401 or permission of instructor.

880V Independent Study in Topics on Urbanism (1) This course is intended to allow interested graduate students to pursue studies and research on an independent basis under faculty direction. In tapias pertaining to urbanism, the format of the course will be along either of two lines depending on the student's interest. In one respect the course can be devoted to study of an urban issue or urban problem with topical schedule set forth here on an independent basis. In another respect the course can be devoted to field investigations along the lines of the same topical schedule. Prerequisite: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences.

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889V Independent Study (3) Independent Study (Each 1-3) Guided independent study and research under tutorial supervision. Prerequisite: Graduate standing in economics and permission of instructor.

899V-899V Urban-Regional Study (Each 3) For master of science degree candidates. The course is designed to be an introduction to urban and regional economics only. Consists of a study in urban economic problems, employing research methods and measurement techniques. Students do independent research consulting with advisor, and submitting completed reports to a departmental committee. Prerequisite: Permission of graduate advisor.

899 Thesis (1-5) An independent research project, written under the supervision of a graduate advisor in the department of economics. Approval of the topic and the completion of the project is the responsibility of the student's departmental committee is required. Prerequisite: Permission of graduate advisor.

840V/940V Seminar: Economic History of the Western World (3) This course is intended primarily for graduate students in history and econo-
Educational Administration and Supervision

849 Theory and Practice of Supervision (3) An introduction to the nature and functions of supervision in the modern school. This course will incorporate the latest psychological, sociological, business administration and educational administration concepts of personnel and programming development as they apply to educational systems. Prereq: EDAD 335, EDAD 466, or ED 437.

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

800V Special Studies in Educational Administration and Supervision (3) A series of intensive courses especially designed for educational administrators and supervisors-scheduled as regular seminars or workshops, according to particular needs.

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

805V School-Community Relations (3) This program is designed to acquaint the student with all aspects of school-community relationships. Special attention will be given to study and research of effective principles and practices in school-community relations. 810V Research Project in Educational Administration (1-3) Individual or group study designed for analysis of specific problems in educational administration and supervision.

911 Field Project in Educational Administration (3) The study of a problem in the area of school administration, and employs the techniques of research and evaluation.

825V Data Processing in Educational Administration (4) A study of systems as planning bases for educational administration, and the role of the administrator as a decision-maker in the data-processing implementation.

830V Foundation in Educational Administration and Supervision (3) A study of the nature and functioning of effective school organization and administration, including the inter-relationship between the federal, state, and local responsibilities.

840V Practicum in Educational Administration and Supervision (3) Emphasis on problems of study and practice in elementary, secondary, and general administration and supervision as the student gains experience in meeting students. Prereq: Completion of 24 hours of graduate study and approval of written applications.

841V Practicum in Educational Administration and Supervision (3) Continuation of education 840V. Emphasis on problems of study and practice in secondary schools, as the student gains experience in meeting students. Prereq: Completion of 48 hours of graduate study and approval of written applications.

840V Administration and Supervision in Elementary Education (3) Emphasis on the development and functions of modern administrative and supervisory practices as they relate to the elementary school.

847V Administration and Supervision in Secondary Education (3) Emphasis on the development and functions of modern administrative and supervisory practices as they relate to the secondary school.

848V Administration and Supervision in Junior High School (3) This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.

855V School Business Management (3) An analysis of the functions of business management, with emphasis on budgeting, planning, auditing and reporting; management of financial-producing procedures; financial administration and protection of property; and administration of transportation.

856V Development and Management of the School Library (3) Emphasis on the role and the point of view of the source of school financing: local, state, and national. In addition to covering the development of sources of financing, there will be placed on current problems in school finance.

860V Building and Grounds Operation (3) Includes steps in planning the modern school building: Site selection, building, construction and design; school furniture and equipment; maintenance and operation; rehabilitation and administration; technical and administrative services.

861V Organization and Administration of The Physical Plant. Designed to acquaint the school administrator in organizing the maintenance and operation program of the school plant; to analyze the problem of pupil activity in rehabilitation and remodeling, financing, scheduling of work, and custodial care.

870V Administration and Staff Personnel (3) This course deals with personnel policies, problems, and procedures. Emphasis will be placed on the techniques of personnel administration and evaluation.

911V Interpersonal Relationships in Educational Administration (3) This course is designed specifically to analyze and emphasize the administrative relationship. It should be useful to those administrators who recognize the need to increase their knowledge and skill in human relations.

880V Administration and Supervision of Vocational Education (3) This course is designed to acquaint students with principles of administration and supervision of vocational education, as related to the service of the superintendent, principal, supervisor.

881V Urban School Administration (3) This course is designed to acquaint students with urban school administration and supervision of city schools.

882V Administration Of The Instructional Material-Management of The Media (3) This course is designed for students who wish to prepare themselves for the administration and supervision of a media program within an elementary and/or secondary school.

890V Administration of Higher Education (3) A study of the administration and supervision of higher education, with emphasis on the principles involved in organization, administration, and procedural analysis emphasized.

891V Supervision of Special Education Services (3) A practicum course for graduate students in educational administration and supervision. Prereq: Post-master's and permission.

954 School Law (3) This course is concerned with laws related to schools. Topics include constitution, contract, negligence, curriculum, admission, pupil control, and transportation. Each course is preceded through study of most recent court pronouncements.

Educational Foundations

418/818M Mental Health (3) A study of the principles of mental health as it relates to good mental health in the classroom. Major emphasis will be placed on the interaction of the environment that will foster learning to relate to others and learning about oneself. Secondary emphasis will be given to the communication phenomena and the impact of institutions and activity within the family. Social and emotional health. (F.Su) Prereq: For 418, junior.

456/856/896M Growth and Learning Problems of Educational Psychology (3) An intensive study designed to help students develop a basic understanding of the processes of learning and development and problems of the disadvantaged students and youth. (F.Su)

806V Special Studies (3) A series of intensive courses scheduled as regular seminars, workshops, or independent study.

810V Introduction to Research (3) To acquaint the beginning graduate student with the nature and techniques of the research process and to enable the student to read, evaluate, and apply research results and the teaching process in taking some understanding of the meaning and spirit of research; to give some experience in studying and preparing research reports.

830V History and Philosophy of Education (3) This course is designed to provide a critical perspective, both historical and philosophical, for understanding education in the United States. The course examines critically the evolution of educational thought and practice from the Colonial era to the present in the U.S.

833V Communication for Teachers Of The Disadvantaged (3) An intensive interdisciplinary course dealing with the nature of the disadvantaged and the communication skills, teaching, consultation, counseling and interactions of teams working with low-income pupils.

834V Comparative Education (3) An intensive study of the educational systems of selected nations found in Europe, Asia, Latin America, and Africa; particular emphasis will be given to the total study of the society selected and its resulting educational adaption and future educational directions.

857V Seminar in Education (3) Systematic study of the problems and developments of education. They will have current significance to American or foreign education; individual student and group analysis emphasized.

860V Education and Society (3) A study of the problems that modern society meets and the role(s) that Education has in helping society meet its challenges. Emphasis will be placed on the interaction between the social fabric of the educational institution and the other major arenas forming the social fabric. Attention will be given to the mechanism of change.

870V Alternative Strategies for Education (3) An intensive study of (A) the impact of recent school organization and practice on the student and (B) current alternative proposals for educational innovation. A brief overview of both the historical development and documentation of the major educational functions underpinning the traditional school program will serve as a foundation from which to analyze and evaluate the merits and effects of major contemporary strategies. Stress will be placed on the social implications of the models discussed.

880V Topics in Audio-Visual Education (3) A study of selected topics involving filmstrips, slides, and other visual aids, and the problems, trends and materials in audio-visual education.

885V The Urban School (3) An analysis of the societal and institutional processes and problems which have bearing upon the education of children in urban settings. A study of the urban school environment.

886V Research Project (1-3) Individual or group study designed for analysis of specific problems in educational administration and supervision.

887V Conflict and Controversy in Urban Education (2) A course designed for students who wish to keep abreast of contemporary issues which confront the educational institution and the teaching profession in an urban society. These issues are modified annually to reflect current educational and social concerns. Meetings are scheduled once per month, September through May.

913V Field Research Techniques in Urban Education (3) The basic purpose of this course is to give students an opportunity to design and conduct field research within a selected perspective, both historical and philosophical, for understanding education in the United States. The course examines critically the evolution of educational thought and practice from the Colonial era to the present in the U.S.
420/422M Learning Materials for Early Childhood Education (3) The design and development of educational materials for preschool children's learning in the areas of the educational program of the elementary school and corrective techniques of instruction. Prereq: FED 801v. 833v Anthropology and Urban Education (3) This course is designed to examine ways in which professional, conceptualized as cultural transmission, contributes to and is influenced by educational change and change in culture. A study of understanding and changing use of professional knowledge in the areas of urban education and community. Prereq: Admission to graduate study. Prereq: FED 801v or permission of instructor. 840V Seminar in Supervision of Student Teachers: Elementary (3) Designed for experienced teachers who are working on improving the supervision of field experiences, and who desire to study student teaching as a method of evaluation, objectives, trends, and development. Prereq: 2 years of teaching experience and permission of instructor. 849V Workshop: Newspaper in the Classroom (3) A course designed to assist teachers in planning to use the newspaper as an aid to classroom instruction. The course content includes the importance of the newspaper, methods for using it in the classroom, and selection of appropriate learning materials for classroom use, and a study of available curricular materials and teaching aids. 850V Practicum in Elementary and Early Childhood Education (3-6) This practicum is designed for selected graduate students who are participating in the graduate program in elementary and early childhood education. The six-hour practicum experience will consist of one semester's practicum experience in an elementary school under the supervision of graduate faculty of the department of elementary and early childhood education. (Half-time teaching will grant 3 hours of credit.) Prereq: Permission of adviser. 851V Advanced Practicum in Elementary Education (3) Advanced practicum will demand an increased responsibility for the student for one semester and a concomitant increase in variety of educational programs for the elementary school. The needs and background of the student for one semester are given special consideration. 852V Improvement of Instruction in Social Studies (3) This course is intended for those professionals wishing to learn about the "New Social Studies." Current, instructional research and practice in this area as well as research appropriate to this topic will be explored. 853V Improvement of Instruction in Language Arts (3) This course includes a study of language arts and its role in the areas of speaking, writing, and listening in the elementary school curriculum. The course is intended for students planning to teach language arts and application is made to classroom practices and to the evaluation of curricular materials. Prereq: Admission to graduate study. 854V Innovations and Trends in Elementary Education (3) A study of selected curricular and instructional ideas, for the purpose of exploring current trends and developments within the various subject matter areas in the elementary school. Prereq: FED 801v. 855V Introduction to Curriculum Planning: Elementary (3) A study of the history, philosophy, and current developments in the elementary curriculum with emphasis on the proposition of the curriculum as a total entity and content and methods of curriculum recognition. Prereq: FED 808v. 849V Seminar in Elementary Education (3) A study of educational problems as they relate to the elementary school, to be taken in the last nine hours in the program for the master of science degree. Prereq: FED 801v. 845V Seminar in Supervision of Student Teachers: Elementary (3) Designed for experienced teachers who are working on improving the supervision of field experiences, and who desire to study student teaching as a method of evaluation, objectives, trends, and development. Prereq: 2 years of teaching experience and permission of instructor. 849V Workshop: Newspaper in the Classroom (3) A course designed to assist teachers in planning to use the newspaper as an aid to classroom instruction. The course content includes the importance of the newspaper, methods for using it in the classroom, and selection of appropriate learning materials for classroom use, and a study of available curricular materials and teaching aids. 850V Practicum in Elementary and Early Childhood Education (3-6) This practicum is designed for selected graduate students who are participating in the graduate program in elementary and early childhood education. 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486/886M Modern French Women Authors (3) A comparative treatment of works by women in contemporary and recent French literature: the feminine perspective on society, politics and human values. As expressed in these works. Con­ducted in English with readings in French or English. (Same as French 486/886M). Prereq: Permission of the instructor. 488M Linguistic Variation (3) The methods and results of linguistic geography, sociological description, and modern variation studies with emphasis on American English in the commu­nity and the classroom. Prereq: English 458/858M or permission. 491M Seminar in English Poetry and American Drama (3) A study of the English and American poetry, the important ideas it contains, and the critical theory of the contemporary period. 493M American Poetry (3) The practice and theory of American poetry from the colonial period up to the contemporary period. 804M Studies in Language and Literature (3) Specific subjects (when offered) appear in class schedules. Complete syllabi available in English Department. 405/805M Contemporary Literature: Major Figures and Major Movements (3) A critical study of selected major literary figures and their works. Prereq: Permission of the instructor. 417/817M The American Novel (3) A critical and historical study of the work of twelve or more significant American novelists of the nine­teenth and twentieth centuries. 908M The American Drama (3) A study of the American drama and its theatrical background from the beginning to the present, with con­centration on the drama of the twentieth cen­tury. 902 Seminar: Modern English Literature (3) A seminar in a selected sub-field or problem area of literary modernism. Includes, descriptive linguistics, teaching English as a foreign language, etc. Prereq: English 458/858M and permission of the instructor. 427/827M Linguistics (3) An introduction to theoretical linguistics and practical aspects of language learning. Prereq: English 458/858M or permission. 437/837M German Literature: Major Authors and Their Works (3) A detailed study of the major German authors and their works. Prereq: Permission of the instructor. 438/838M German Literature: Major Authors and Their Works (3) A detailed study of the major German authors and their works. Prereq: Permission of the instructor. 439/839M German Literature of the Eighteenth Century (3) A study of the development of poetry in the contem­porary period. Prereq: French 315 and 316, or permission. 445/845M Linguistics (3) An introduction to the sociological and social science aspects of language. Prereq: French 402 or permission. 450/850M Modern French Novel (3) Reading and discussion of selected French plays from 1930 to the present. Prereq: French 315 and 316, or permission. 455/855M Twentieth Century Poetry (3) Exa­mination of the development of poetry in the contem­porary period. Prereq: French 315 and 316, or permission. 460/860M Introduction to Linguistics (3) An introduction to historical linguistic theory and its applications: includes linguistics, descriptive linguistics, teaching English as a foreign language, etc. Prereq: English 458/858M or permission. 470/870M The American Novel (3) A critical and historical study of the work of twelve or more significant American novelists of the nine­teenth century. 480 Independent Study (3) Specialized planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the graduate faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit once. Prereq: Permission of the instructor. 489/899M Pro-Seminar (1-3) Detailed study of nar­rower topic in selected languages, literature, or culture. Prereq: Permission of the instructor. 491M Seminar in English Literature (3) A seminar in a selected sub-field or problem area of English literature: the specific methods of scholarship currently useful to the study of English and American literature. Prereq: Graduate standing or permission of the chairman of the department of English. 492 Seminar: Literary Criticism (3) Literary criticism from the beginnings to the present, with emphasis on the criticism of ancient Greece and Rome, nineteenth century America, and the eighteenth century. Prereq: Graduate standing. 494 Seminar: Shakespeare (3) Critical analy­sis of ten tragedies and ten comedies of Shake­speare. Prereq: Graduate standing. 495 English Literature: Middle English (3) Studies in the transitions between English literature of the age of Johnson and that of the age of Wordsworth. Prereq: Graduate standing. 496/896M Seminar: The Restoration and Early 18th Century English Literature (3) A study of the Restoration and early eighteenth century English literature in its historical setting and in relation to the major English authors and their works. Prereq: Permission of the instructor. 809 Thesis (3-4) Independent research project written under the supervision of an adviser. Prereq: Graduate standing. 912 Seminar: Shakespeare (3) Critical analy­sis of ten tragedies and ten comedies of Shake­speare. Prereq: Graduate standing.
458/858M Introduction to Linguistics (3) An introduction to the concepts and methodology of the scientific study of language, including language, linguistic theory, variation, and acquisition as well as semantics, lexicography, and psycholinguistics. Prereq: GE 458, junior standing or permission of the instructor.

490/900M Independent Study (1-3) Guided independent study. May be repeated with different topics but not in same semester for maximum of six semester hours total. Prereq: Permission of instructor.

496/966M Pre-Seminar (1-3) A detailed study of the representative Spanish novelists of the sixteenth and seventeenth centuries, including such works as Lazarillo de Tormes, La Celestina, and Don Quixote. Prereq: Spanish 317 or permission of the instructor.

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

416/816M Spanish American Literature of The Twentieth Century (3) Critical and analytical study of the foremost Spanish American dramatists, poets, and essayists from modernism to the present. Prereq: Spanish 322 or permission of the instructor.

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

429/829M Spanish American Novel (3) Study of representative novels and novelists of the nineteenth and twentieth centuries, with emphasis on contemporary authors. Prereq: Spanish 332 or permission of the instructor.

424/824M Generation of 1898 (3) A study of the representative Spanish novelists of the late 19th century.Prereq: Spanish 317 or permission of the instructor.


470/870M Spanish and American History (3) A study of the scientific study of language; includes language, linguistic theory, variation, and acquisition as well as semantics, lexicography, and psycholinguistics. Prereq: GE 458, junior standing or permission of the instructor.


849V Advanced Fluid Mechanics (3) Ideal and nonideal flow, control volume and control surface methods of motion; potential theory; conformation of a fluid flow; potential theories and the boundary layer theory. Prereq: GE 318, Math 235.

840V Experimental Stress Analysis (3) Investigates the basic methods of stress analysis associated with the analysis of stress using mechanical strain gages, lacquer, photo-electricity and

membrane anology. Prereq: GE 493 or permission of the instructor.


817V Similitude (3) The principles and illustrations of dimensional analysis, similarity, and modeling. Prereq: For 431. Applications to structures, fluid flow, heat transfer, electromagnetic theory, acoustics and chemical engineering. Differential equations and similarity. Prereq: Permission of instructor.

819V Engineering Vibrations (3) Systems with one degree of freedom; systems with non-linear and time-varying parameters; systems with several degrees of freedom; vibrations of elastic bodies. Prereq: Math 235.

Geography and Geology

401/801M Conservation of Natural Resources (3) Historical and present-day distribution and utilization of the sources of nations with emphasis on the United States. Includes the history of conservation in the U.S., the philosophy behind the movement, current conservation policies and practices, and the direction in which resource use and conservation is moving. Prereq: 3 hours of Geog, 353 or permission of the instructor.

402/802M Computer Mapping and Data Analysis (3) Introduction to computer techniques in mapping and analyzing areal data. Emphasis is placed upon understanding and utilizing various mapping and statistical programs. Prereq: GE 335, or permission of instructor.

430/830M Remote Sensing (3) A study of the worldwide geographic distribution of major vegetation zones, and the role of the physical and biological factors that determine their location. Special attention to North America is included. Prereq: GE 102 and either Math 112 or permission. (Same as Bio 410/410M.)

431V Introduction to Geology (3) A study of the earth from the viewpoints of history, size, and structure, from the earth's earliest formation to the present day. Prereq: Junior standing. (Same as Econ 421/ 421M.)

431/831M Geography of Manufacturing (3) A course which discusses methods of measure-ment and classification, as well as the function of manufacturing; major world manufacturing regions and industry analysis, location criteria and theory in the U.S.; and local community patterns. Prereq: GEog. 313 or 315. Senior standing. Junior standing. (Same as Econ 431/431M.

814M Urban Sociology (3) Examines urban theoretical perspectives, urbanization processes, and the diversity of metropolitan communities, urban and suburban neighborhoods, community power and urban politics, environment. Prereq: Grad student at University at Omaha. Prereq: Graduate standing and permission of instructor.

423/823M Great Plains and Nebraska (3) A study of the major physical and cultural attributes of the region. Emphasizes settlement and the role of agriculture on the regional economy. Prereq: For 423, 6 hours of Geogra-phy and Junior standing. For 423M, Graduate standing.

426/826M Landform Studies II (3) Primarily a laboratory course with quantitative field techniques. Prereq: 425, 6 hours of Geog, upper and Graduate standing.

427/827M Landform Studies I (3) Primarily a laboratory course with quantitative field techniques. Prereq: 425, 6 hours of Geog, upper and Graduate standing.

428/828M Computers and programing (3) A study of the various atmospheric elements; cli­mate; climatic classification; analysis of climate; oceanic patterns; and effect of climatic phenomena on the cultural development of the United States; and local community patterns. Prereq: 425, 6 hours of Geog, upper and Graduate standing.

453/853M Historical Geography of The United States (3) A study of the historical circum­stances behind contemporary patterns of human activity. Prereq: 453, junior standing and Hist. 111 and 112. For 853M, Hist. 111 and 112.

465/865M Environmental Remote Sensing (3) Analysis of various sensor technologies ranging from conventional low-altitude aerial photography to high-altitude sensors and electromagnetic techniques such as "SkyShade" and "Landsat". Provides an introduction to practical application. Provides basic tools for environmental evaluation. Prereq: Graduate standing.

490/890M Urbanization in Developing Areas (3) The functions and morphology of various types of cities found in presently developing areas of the world. Emphasis will be upon the effect of urban growth on the cities of the developed and developing areas. Prereq: 490, 6 hours of geo., junior standing and urban Geo.

813M Geography of Manufacturing (3) A course which discusses methods of measure-
801V Geography Concepts: History and Philosophy (3) Introduction to history of geography, emphasis on significant ideas, developments, and their application to the present. Prereq: Permission.

802V Geography Concepts: Quantitative Methods (3) The understanding and appreciation of quantitative techniques in geography. Emphasis is placed on sampling theory and design, graph theory, and spatial statistics. Prereq: Permission.

804V Biogeographic Education: Geography (3) A survey of methods, instruction aids and goals for teaching geography. Design is for teaching geography in the elementary and secondary schools as well as in higher education. Prereq: Permission.


811V Geography Concepts: History and Philosophy (3) An introduction to history of geography, emphasis on significant ideas, developments, and their application to the present. Prereq: Permission.

825V TOPOGRAPHIC METHODS (3) Teaches the student proper use of drawing instruments, effective map layout and design, and the latest cartographic techniques, leading to a high level of competence in the design and interpretation of maps.

871V Population Seminar (3) The significance of differences from place to place in the numbers, kind, and qualities of human populations and changes through time. Prereq: Permission. (Same as Soc 873V)

880V Internship in Environmental/Regional Planning (1-6) (repeatable up to 6 hours). Internship with local planning agencies enabling students to gain knowledge and experience in comprehensive regional or environmental planning. Prereq: Permission, and 12 hours graduate credit in geography.

883V Urban Seminar in Metropolitan Planning and Development (3) An overview of the present status of a city or metropolitan area with special emphasis on structure of planning departments, comprehensive plans, and problems of implementation. Prereq: Permission and Geoc. 811V or Econ 811V.

888V Seminar on The Urban Community (2-6) An interdisciplinary course on the metropolitan community in which various departments and colleges concerned with urban problems are put on broad interdisciplinary focus. Prereq: Undergraduate standing. Instructor in one of the social sciences plus 6 hours of graduate work in social sciences. (Also listed under economics, political science, and sociology.)

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

941 Seminar in Problems in Political Geography (1-3) Seminar in problems in political geography. Prereq: Permission.

955 Topics in Regional Geomorphology of North America (3) A seminar on the landforms of North America from the perspective of a specific region. Prereq: Permission.

975 Seminar in Regional Geography (3-6) Maximum 3 per semester, except in foreign country placement. Prereq: Permission of department chair and GTU.

981 Field Geography (3) A systematic discussion of techniques for studying and analyzing terrain features, land use characteristics, and the nature of their pattern as a part of the whole geographic environment. Prereq: Permission.

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

876V TOPOGRAPHIC METHODS (3) Teaches the student proper use of drawing instruments, effective map layout and design, and the latest cartographic techniques, leading to a high level of competence in the design and interpretation of maps.

877V Population Seminar (3) The significance of differences from place to place in the numbers, kind, and qualities of human populations and changes through time. Prereq: Permission. (Same as Soc 873V)

885V Thesis in Aging (3) This course is intended for students in Gerontology and in other fields in whose work an interdisciplinary approach to understanding significant issues which affect the lives of older people. Prereq: Graduate standing.

446/846M Aging and Human Behavior (3) The course examines different kinds of behavior and the factors which influence improvement in aging of various persons. Prereq: Permission.

448/848M Comparative Gerontology (3) The study of aging related to several various fields and the aging of individuals and communities. Prereq: Graduate standing; permission.

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

467M Counseling Services for the Aging (3) This course is provided to give the student an historical overview of programs for the elderly, examination of required policy and practice as it relates to the older American, and review the principles and practices relative to the existing national programs for the aged. Prereq: 3 hrs. Gerontology.

492/892M Special Studies in Gerontology (1-3) Special studies designed around the interests and needs of the student. Prereq: Permission.

494/894M Directed Readings in Counseling and Gerontology (1) An introduction to the nature and development of social gerontology. Prereq: Permission.

909V Personal Values and Aging (1) Course designed to increase students' ability to understand and describe personal values and feelings related to aging and the aged.

942 Geopsychotherapy (3) To become familiar with the psychology of aging from a research perspective. The focus will be on the latest research in the middle years and in later years. (Same as Psychology 942).

948/848M Health, Physical Education and Recreation (3) This course is intended to help develop basic counseling skills for people in the field of psychology and/or gerontology.

Health, Physical Education and Recreation

General HPER

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

803V Research in Health, Physical Education and Recreation (3) An introduction to research methods and the nature and significance of research in HPER. Attention will be given to reading, evaluating, conducting, and applying research results to classroom situations. Basic statistical techniques will be covered. Prereq: Graduate standing.

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

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

Health Education

455/855M Health Aspects of Aging (3) The study of psychological, sociological, and physiological factors that influence the health of the aging; with particular emphasis given to biological changes that have implications for disease and health disorders. Prereq: For 455M, 3 hrs of health of permission of the instructor, (S)
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selected content areas in health education. These selected content areas include: Drug education, human sexuality, dental health, human development, mental health, and safety education. In addition an abbre­ viated offering of health education materials for elementary schools will be provided. Prereq: Graduating student.

825V Elementary School Health Education: Selected Content Areas (3) This course is designed to provide the student with an indepth study of selected content areas in health education. These selected content areas include: Drug education, human sexuality, dental health, human development, mental health, and safety education. In addition an abbreviated offering of health education materials for elementary schools will be provided. Prereq: Graduating student.

893/894 V Test Construction and Analysis (3) An overview of educational measurement. Survey of tests and test theory. Emphasis is given to understanding the role of the teacher in the construction, administration, and interpretation of tests. Proctor: Prereq: Graduate standing, at least 12 hours in psychology, or permission of the instructor.

895V(K) Linear Algebra (3) An introductory course in the study of linear systems with emphasis on concepts and techniques of matrix theory. Prereq: Prereq: MATH 142 or permission of the instructor.

896V(K) Modern Algebra (3) An introduction to advanced topics in algebra with emphasis on the study of groups. Prereq: MATH 142 or permission of the instructor. 897V(K) Number Theory (3) An introduction to the basic concepts and theorems of number theory. Prereq: MATH 142 or permission of the instructor.

900V Elementary School Health Education: Selected Content Areas (3) This course is designed to provide the student with an indepth study of selected content areas in health education. These selected content areas include: Drug education, human sexuality, dental health, human development, mental health, and safety education. In addition an abbreviated offering of health education materials for elementary schools will be provided. Prereq: Graduating student.

854V(K) Kinesiological Analysis of Motor Skills (3) An investigation of the biomechanical basis of motor patterns. Through the analysis and study of sports skills and fundamental movement patterns, students will acquire the knowledge and techniques for collecting biomechanical data.

493/893M Measurement and Evaluation of Physical Education Programs (3) Analysis of measurement apparatus and testing procedures used in physical education. Includes a review of descriptive statistics and the use of test administration. Prereq: For 493, junior standing and physical education 2453. (SSo)

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

Recreation/Leisure Studies

424/824M Organization and Administration of Recreation (3) Designed to provide a background of information on community recreation with special attention to organization, promotion, development from the administrative point of view. Prereq: For 824, at least 6 hours of upper division courses in recreation or permission of the instructor.

430/826M Recreation Programming (3) An advanced study of recreational programming and management. Emphasis is placed on selected research techniques utilizing survey, analysis, case study and commentary. Prereq: For 826, at least 6 hours of upper division courses in recreation or permission of the instructor.

441 Outdoor Recreation Resource Planning (3) An in-depth view of outdoor recreation resource planning and management, including the planning of the medieval church and of feudal society from the declining years of the Roman empire to the beginning of the Renaissance, the Middle Ages, and the development of the nation. Prereq: For 441, junior standing or permission of the instructor.

837V/837J Europe and America in the Two World Wars (3) A study of the history of the United States since 1900. Prereq: For 837J, junior standing or permission of the instructor.

838V/838J The Revolutionary Era, 1763-1789 (3) An analysis of the imperial and internal forces which led to the revolution and an examination of the economic, social, and political problems of the emerging nations. Prereq: For 838J, junior standing or permission of the instructor.

841/841M American Social and Intellectual History Since 1865 (3) Primarily a non-political approach to American history, this course will examine significant topics in American thought and society. Prereq: For 841, junior standing or permission of the instructor.

842/842M The Early Federal Period, 1789-1815 (3) A study of the interworkings of national and international politics, economics, and foreign affairs in molding government and society during the formative years of the United States. Prereq: For 842, junior standing or permission of the instructor.

843/843M The Jacksonian Era (3) An interpretive study of the middle period of American history. Prereq: For 843, junior standing or permission of the instructor.

844/844M Civil War and Reconstruction (3) A period study from 1845 to 1890 during which the United States emerged from the Civil War, the war years, and the reshaping of the Union during the reconstruction and arts of the period extending roughly from 1865-1875. Prereq: For 844, junior standing or permission of the instructor.

845/845M History of the British Empire and Commonwealth (3) A study of the influence of Britain in the Western World, with emphasis on the role of the British Empire, in the United States, India and the Pacific. The development of a de­ pendent empire and the transformation of many dependencies to the status of independent member­ ships of the Commonwealth of Nations. Prereq: For 845, junior standing or permission of the instructor.

871/871J Europe and America in the Two World Wars (3) A study of the development and political history of the European and American nations from the end of the nineteenth century to the election of Franklin D. Roosevelt as the presi-
I. 428/828M 440/840M History of Constitutional Theory and Practice since 1860. Prereq: For 434, junior standing or permission of the instructor. 434/834M Constitutional History of the United States to 1860 (3) A history of constitutional theory and practice since 1860. Prereq: For 432, junior standing or permission of the instructor. 434/834M Constitutional History of the United States to 1860 (3) A history of constitutional theory and practice since 1860. Prereq: For 432, junior standing or permission of the instructor.

II. 451/851M Comparative Imperialism (3) Historical development of various forms of imperialism. Prereq: For 487, junior standing or permission of the instructor.

III. 487/887M Economic History of the Western World to 1859 (3) This course discusses the evolution of the economics of industry, leading up to the price revolution of the sixteenth century, industrialization, the functioning of international capitalism, particularly in England. In addition, attention will be given to related demographic, social, political, and cultural issues. Prereq: Graduate standing.

IV. 493/893M Economic History of the Western World since 1859 (3) This course examines the development of capitalism and its general acceptance in the western world and the effects of war, revolution, and economic policies that have emerged over the past century and a quarter. In addition, attention will be given to the changing dynamics among the advanced industrial nations and the less developed nations. Approaches include historical, political, and socioeconomic development and are presented in a comparative. Prereq: Graduate standing.

501 Advanced Research Project in History (1,11, S) (1-5) Special problems in advanced research in history, arranged individually with graduate students.

511 Historical Research (1) (3) The critical method in collecting and organizing historical materials; the processes of verification, evaluation, and interpretation of facts; the use of source documents; and the writing, editing, and preparation of drafts. Prereq: Graduate standing and permission of the instructor. (Not open to credit to students who have taken Hist. 495 or equivalent.)

515 Great American Historians (3) A study of the lives and works of some of the world's most noted historians, as well as their influences on and contributions to human knowledge and understanding. Prereq: For 444, junior standing or permission of the instructor.

521/821M European Economic History (3) The economic history of Europe from the middle ages through the late eighteenth century. Prereq: For 442, junior standing or permission of the instructor.

531/831M European Intellectual History (3) The history of European intellectual and cultural thought from the Renaissance to the Enlightenment. Prereq: For 445, junior standing or permission of the instructor.

541/841M European Intellectual History (3) The history of European intellectual and cultural thought from the Renaissance to the Enlightenment. Prereq: For 445, junior standing or permission of the instructor.

551/851M European Intellectual History (3) The history of European intellectual and cultural thought from the Renaissance to the Enlightenment. Prereq: For 445, junior standing or permission of the instructor.

561/861M The Latin American Experience (3) A study of Latin American history, focusing on the development of Latin American societies and cultures from the colonial period to the present. Prereq: For 446, junior standing or permission of the instructor.

571/871M Intellectual History of the Western World Since 1850 (3) A study of the intellectual development of the world since 1850, focusing on the major intellectual and social developments of the time. Prereq: For 447, junior standing or permission of the instructor.

581/881M Intellectual History of the Modern World (3) A study of the intellectual development of the modern world since 1850, focusing on the major intellectual and social developments of the time. Prereq: For 447, junior standing or permission of the instructor.

591/891M Intellectual History of the Modern World (3) A study of the intellectual development of the modern world since 1850, focusing on the major intellectual and social developments of the time. Prereq: For 447, junior standing or permission of the instructor.

601/901M United States Intellectual History (3) A study of the intellectual history of the United States from the colonial period to the present. Prereq: For 448, junior standing or permission of the instructor.

651/951M United States Intellectual History (3) A study of the intellectual history of the United States from the colonial period to the present. Prereq: For 448, junior standing or permission of the instructor.
436/436M Linear Programming (3) Theory of linear programming, obtaining of initial basic feasible solution, infeasible and unbounded problems; theoretical and algorithmic proofs will be discussed. Prereq: Math/Cs 265.

812V Advanced Numerical Methods II (3) Solutions to equations, approximation, numerical integration, and numerical solutions to partial differential equations. Same as Math 882V. Prereq: Math/Cs 881V/881V.

891V Advanced Numerical Techniques (3) The mathematical foundations of optimization theory, applications to well-defined problems, optimization under uncertainty, constrained problems, and dynamic programming. Vorlesung and tutorial problems. Prerequisite: Math 971 and permission of instructor.

892V Advanced Numerical Methods II (3) Solutions to equations, approximation, numerical integration, and numerical solutions to partial differential equations. Same as Math 882V. Prereq: Math/Cs 881V/881V.

891V Advanced Topics in Optimization (3) Topics in optimization, with emphasis on numerical methods, optimization under uncertainty, constrained problems, and dynamic programming. Vorlesung and tutorial problems. Prerequisite: Math 971 and permission of instructor.

892V Advanced Numerical Techniques (3) The mathematical foundations of optimization theory, applications to well-defined problems, optimization under uncertainty, constrained problems, and dynamic programming. Vorlesung and tutorial problems. Prerequisite: Math 971 and permission of instructor.

891V Advanced Numerical Techniques (3) The mathematical foundations of optimization theory, applications to well-defined problems, optimization under uncertainty, constrained problems, and dynamic programming. Vorlesung and tutorial problems. Prerequisite: Math 971 and permission of instructor.

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892V Advanced Numerical Methods II (3) Solutions to equations, approximation, numerical integration, and numerical solutions to partial differential equations. Same as Math 882V. Prereq: Math/Cs 881V/881V.

940V Applied Complex Variables (3) Applications of complex variables to potential theory, to Fourier and Laplace transforms, and to other fields such as ordinary differential equations, number theory, and conformal mapping. Prereq: Math 427.


942V General Topology (3) The concepts of Math 461/461M are studied at an advanced level in conjunction with ordinal and cardinal numbers, open and closed maps, separation axioms and countable compactness. Prereq: Math 461/461M or permission of the instructor.

943V Topics in Topology (3) Topics from among the following: quotient spaces, convergence, compactness, quotient topology, set functions, covering properties, homotopy, metrization, uniform spaces. Prereq: Math 462V or permission of the instructor.

947V Algebraic Combinatorics (3) Classical combinatorial analysis, graph theory, trees, network flow, matching theory, extremal problems, block design, codes, and finite sets. Prereq: Math 467 or CSE 235.


952V Advanced Topology II (3) Topology course in the second year. Prereq: Math/CSE 330 or permission of the instructor.

955V Classical and Romantic Music Literature (3) Study of representative compositions from the Renaissance and Baroque periods. Prereq: Music 112 or 212. 6 hrs. of undergraduate music history and performance. 6 hrs. of undergraduate music history and performance.

956V Music in the Twentieth Century (3) Study of developments in musical composition in all performance media. Written examination. 6 hrs. of undergraduate music history and performance.

959V Theorist I (3-6) An introduction to computer science (3) An introduction to computer science and applications. Prereq: Math/CSE 330.

960V Independent Graduate Studies (3) Under this number a graduate student may pursue study of some topic not normally available to him in a formal course. The topics will be arranged in mathematics to be determined by the instructor. Prereq: Permission of instructor and graduate classification.

965V Topics in Fourier Analysis (3) Fourier series, Fourier transforms, and the Riemann-Lebesgue theorem. Prereq: Math 841V or 901V.

972V Voice (1-3) A study of voice production, phonetics, and vocal techniques. Prereq: Voice 857V or 858V.

978V Organ (1-3) Study of the organ. Prereq: Math/CSE 330 or permission of the instructor.

980J Statistical Methods I (3) An introduction to statistical methods with emphasis on the use of statistical packages on the computer. Prereq: Math 101 or equivalent.

981J Statistical Methods II (3) Regression and correlation analysis, covariance, chi-square tests, analysis of variance, and categorical data analysis. 6 hrs. of undergraduate statistics. Statistical packages are used when appropriate. Prereq: Statistics 800J or equivalent.

983V Music (1-3) A study of music history and performance. 6 hrs. of undergraduate music history and performance.

988V Student Teaching (1-3) A study of advanced conducting problems in band and orchestra literature and techniques for their solution. Prereq: Music 260 and 363 or equivalent.

990J Philosophy and Religion (3) A study of philosophy and religion. Prereq: Philosophy 200J.

998J Advanced Instrumental Conducting (3) A study of advanced conducting problems in band and orchestra literature and techniques for their solution. Prereq: Music 260 and 363 or equivalent.

999J Practicum in Education (1-3) Practicum in education for the graduate student in and the supervising teacher. Prereq: Math 926 or 927.
I and principles of nuclear science. General Physics 112 or 212.

This course consists of applications of quantum theory to atomic and molecular physics. Topics include square wells and simple potentials and their use, one electron atoms, atomic mechanics, optical and electrical phenomena.

This course includes the general historical background, the important experiments, Lorentz transformations, covariant formulation, applications to electromagnetism and mechanics and philosophical implications of special relativity including relationship to the general theory. Prereq: Calculus and Physics 112 or 212.

This course consists of applications of quantum mechanics to many-body systems. Topics include the Schrodinger theory, solutions of square wells, harmonic oscillator, potential barriers, one electron atoms, atomic spectra, fine structure, orbital angular momentum, shell structure, magnetic moments, electron binding and escape, and applications to atomic and nuclear physics.

A basic study of democracy, its roots, development, major 20th century political trends and threats to man from the Hebrews and Greeks to the present day. Prereq: For 430, junior standing.

A basic study of the inter-American system: The regional institutional and ideological environment, power relations, and contemporary problems. Prereq: Permission of graduate advisor.

A seminar on the inter-American system: The regional institutional and ideological environment, power relations, and contemporary problems. Prereq: Permission of graduate advisor.

A study of selected topics in normative, empirical and ideological political theory and their impact upon practitioners of politics. Prereq: Six hours of political theory or permission of graduate advisor.

An examination of the political ideologies that have dominated the life of the American people. Prereq: Permission of graduate advisor.

A seminar on the comparative politics of rising areas. (1) Research, analysis, and writing on topics of general and particular interest to the students. Prereq: Permission of graduate advisor.

A seminar in comparative politics. (3) An examination of the purpose, theories and literature of the field of comparative politics, with evaluation of the theories by application to contemporary political systems. Prereq: Permission of graduate advisor.

A seminar in comparative politics: Emerging Areas (1) Research, analysis, and writing on topics of general and particular interest to the students. Prereq: Permission of graduate advisor.

Independent Study in Topics of Urban (3-5) Graduate student research and creative work in any major or one of the social sciences. (Also listed under economics, geography, and sociology.)

Urban Community (3-6) An interdisciplinary course on the metropolitan community in which various governmental and college organizations are concerned with urban problems are put in broad interrelated focus. Prereq: Undergraduate standing or permission of the instructor. (Also listed under economics, geography, and sociology.)

Readings in Political Science (3) Specially planned readings in political science for the graduate student who encounters scheduling problems in the completion of the course work. Prereq: Graduate standing. (Also listed under political science.)

An experimental study of selected aspects of the structure and function of the American political system with emphasis on individual research by the student. Prereq: Permission of graduate advisor.

A seminar in American Government and Politics: Contemporary Analysis of selected aspects of the structure and function of the American political system with emphasis on research by the student. Prereq: Permission of graduate advisor.

A seminar in public law (3) Practical methods of research as applied to specifically selected problems in the areas of administrative, constitutional, and/or international law. Problems studied will correspond to those encountered by government employees, officials, and practitioners in the field of public administration. Emphasis will be varied from semester to semester in accordance with the background and needs of the students enrolled. Prereq: Three semester hours in public law or permission of graduate advisor.

A seminar in political theory (3) Analysis of selected topics in normative, empirical and ideological political theory and their impact upon practitioners of politics. Prereq: Six hours of political theory or permission of graduate advisor.

A seminar in International Politics (3) An examination of the theoretical frameworks advanced for the systematic study of foreign policy, power and power politics, with application to particular problems in international relations. Prereq: Permission of graduate advisor.

An examination of the theoretical frameworks advanced for the systematic study of foreign policy, power and power politics, with application to particular problems in international relations. Prereq: Permission of graduate advisor.

A seminar on the role of the Latin American states in the international political system: Emphasis upon developing nations and their participation in the study of the relations of the inter-American system; the regional institutional and ideological environment, power relations, and contemporary problems. Prereq: For 428, junior standing.

A seminar in the law of international organizations. Emphasis upon dual aspects of organization and procedure, international political problems, and contemporary problems. Prereq: For 428, junior standing.

A seminar on the law of international organizations. Emphasis upon dual aspects of organization and procedure, international political problems, and contemporary problems. Prereq: For 428, junior standing.

A seminar on the law of international organizations. Emphasis upon dual aspects of organization and procedure, international political problems, and contemporary problems. Prereq: For 428, junior standing.
Psychology

401/801M History of Psychology (3) A study of the origins, development, and nature of psychology in its relation to external events with emphasis on the period since 1875. Prereq: For 401, junior standing.

405/805M Computer Concepts in Psychology and The Behavioral Sciences (3) An introduction to the computer emphasizing the application of computers in the areas of psychology, sociology, and education. Includes a functional description of computers and a discussion of programming languages as well as specific uses. Prereq, 301 or equivalent.

406/806M Environmental Psychology (3) A study of effects of natural and artificial environments on human behavior. Particular emphasis on effects of spatial arrangements and their interactions with social distance, territoriality, privacy and other social phenomena. Prereq, Basic Statistics or equivalent.

407/807M Cognitive Processes: Thinking and Imagination (3) An exploration of historical and contemporary research and theory concerned with higher cognitive processes including concept formation, problem solving, creativity, decision making, and symbolic behavior. Prereq, 807M, Psychology 301 or 404.

413/813M Research Design (3) Methods for designing, implementing, and evaluating research in psychology with an emphasis on the design of empirical studies. Prereq, Psychology 213 or equivalent.

425/825M The Limits of Consciousness (3) A survey of theories, practices and research on altered states of consciousness. Emphasis is on the empirical as well as intellectual proficiency in understanding the phenomena. Prereq, Psychology 301, junior standing.

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

428/828M Animal Behavior Laboratory (1) Laboratory and field studies of animal behavior. Prereq, 427/827M or consent of instructor. (Same as Biology 428/828M)

433/833M Personality Psychopathology (3) The study of Sigmund Freud, psychoanalytic theories, and current theories and dreams. Readings are emphasized.

445/845M Personality Theories (3) A comparative approach to the understanding of personality theory emphasizing the relationship and consistency approaches to personality. Prereq, Psychology 213 or senior standing or permission.

447/847M Jungian Psychology (3) To become familiar with C. G. Jung, his life and words; his psychology, philosophy, theology, and literature. Readings are emphasized. Prereq. None.

448/848M Eastern Psychology (3) Theory and techniques of eastern psychology with emphasis on both the historical and hemispheric activity. Daily practice of non­linguistic thinking required. Prereq, For 448, junior standing and permission of the instructor.

452/852M Psycholinguistics (3) A discussion of the literature concerned with how such psychological variables as perception, learning, memory, and development relate to the linguistic variables of sentence structure, meaning, and speech perception. Prereq, For 452, senior standing or permission. (Same as Anthropology 452 and Comm. 452)

455/855M Research Methods (3) Research considers significantly subaverage intellectual functioning originating during the developmental period as it is associated with impairment of intellectual behavior. Research is emphasized. Prereq: Psychology 431/831 or equivalent and Psychology 343 or 445/845M.

459/859M Psychology of Exceptional Children (3) A study of the special problems of children with adolescents with visual, auditory, or neurological impairments, orthopedic anomalies. In particular attention will be paid to related problem behavior in the school age child. Prereq, Psychology 359.

453/853V Individual Tests I (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis on intelligence testing. Prereq, 16 graduate hours of psychology including completion of three weeks of supervised instruction for the master's degree. Prereq: Psychology 431 or 831 or 832 and ad­mission as student to psychological assistant or school psychologist program.

Psychology including such topics as ethics, professional organizations, job and educational opportunities, reference materials, licensing and certification, and other relevant material.

466/866M Seminar in Social Psychology (3) A seminar designed to examine the general topical trends in social psychology selected by the instructor. As seminar material, course may be repeated in a student's program without implying duplication. Prereq. Permission. (Same as Sociology 865V)

471/871V Nonparametric Statistics (3) A study of procedures for analyzing data with particular emphasis on application of distribution-free tests to research problems in social behavioral science. Prereq, Psychology 213 or equivalent.

492/892V Introduction to Counseling Theories (3) Study of contemporary theories of counseling, their characteristics, and methods. Prereq, Psychology 213 or equivalent.

493/893V Psychometric Methods (3) A study of the theoretical and practical problems related to the development and use of psychological tests covering such topics as measurement, test development, standardization, reliability, validity; and interpretation. Prereq, Psychology 213 or equivalent.

495/895V Seminar in Communication Theory (3) Analysis of current approaches to the study of communication with emphasis on theoretical methods as they are related to various professional interests. Prereq, Psychology 213 or equivalent or permission of instructor. (Same as Speech 895V)

521/821V Advanced Educational Psychology (3) A study of the principles and learning and their applications to problems of contemporary education, sex differences, and problems existing in the classroom. Prereq: Psychology 359.

533V Individual Tests I (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis on intelligence testing. Prereq, 16 graduate hours of psychology including completion of three weeks of supervised instruction for the master's degree. Prereq: Psychology 431 or 831 or 832 and admission as student to psychological assistant or school psychologist program.

544V Individual Tests II (3) Administration, scoring, standardization, and interpretation of individually administered tests with special emphasis on intelligence testing. Prereq, 16 graduate hours of psychology including completion of all required courses for the master's degree. Prereq: Psychology 431 or 831 or 832 and admission to either psychological assistant or school psychologist program.

800V Practicum in Industrial Psychology (3) Faculty supervised research project, involving a critical analysis of an industrial problem, or library work and oral or written reports. Prereq, Written permission of the department.

895V Practicum in Industrial Psychology (3) Faculty supervised research project, involving a critical analysis of an industrial problem, or library work and oral or written reports. Prereq, Written permission of the department.
929 Seminar in Developmental Psychobiology (3-6) Faculty-supervised experience designed to provide a practical understanding of theoretical concepts of human development. Emphasis on direct observation and analysis of behavioral, cognitive, and physiological changes in relation to environmental factors. Prereq: Permission of instructor. 929 Seminar in Developmental Psychobiology (3-6) Faculty-supervised experience designed to provide a practical understanding of theoretical concepts of human development. Emphasis on direct observation and analysis of behavioral, cognitive, and physiological changes in relation to environmental factors. Prereq: Permission of instructor.

897 Practicum in Educational Psychology (1-6) Faculty-supervised experience in an educational agency designed to acquaint the student with the practical problems faced by psychologists who work in educational settings. Prereq: Permission of your practicum instructor.

997 Practicum in Developmental Psychology (1-6) Faculty-supervised experience designed to provide a practical understanding of theoretical concepts of human development. Emphasis on direct observation and analysis of behavioral, cognitive, and physiological changes in relation to environmental factors. Prereq: Permission of the instructor.

899 Thesis (1-6) Independent research project written under the supervision of a faculty committee. May be repeated up to a total of 6 hours. Prereq: Written permission of your thesis committee.

903 Seminar: Psychology of Motivation (3-9) A topic area within the field of motivation will be explored in depth. Each year, the specific topic will be selected to coincide with that of the Nebraska state university on motivation. Students enrolled in the course will be expected to attend the symposium which is held in Lincoln. Prereq: Graduate standing and instructor's permission.

904 Practicum: Learning (3) A comprehensive and intensive coverage of the experimental literature on learning in humans and animals. Prereq: Permission of instructor.

905 Advanced Seminar in Learning (3) A course considering theorists who have most directly influenced current theoretical psychology. Prereq: Psychology 301 or 504 or permission of instructor.

910 Seminar in Analysis of Variance (3) A course providing a theoretical and practical understanding of the analysis of variance model. Prereq: Permission of instructor.

911 Advanced Multiple Regression and Factor Analysis (3) Advanced problems and techniques of correlation and regression analysis, including simple correlation and regression, methods and problems, multiple correlation, multiple regression, and factor analysis. Prereq: Permission of instructor.

921 Seminar: Psychology of Perception (3) A comprehensive understanding of the psychological literature on perception in humans and animals. Prereq: Permission of instructor.

923 Psychobiological Psychology (3) A systematic study of the physiological processes underlying behavior. Prereq: Permission of instructor.

925 Seminar in Developmental Psychology (3) A theoretical and empirical analysis of developmental theories and other physiological changes correlated with and contributing to the developmental processes in human and animal subjects. Prereq: Completion of the psychology prosem­

936 Seminar in Applications of Non-Verbal Communication (3-6) Faculty-supervised experience designed to provide a practical understanding of theoretical concepts of human development. Emphasis on direct observation and analysis of behavioral, cognitive, and physiological changes in relation to environmental factors. Prereq: Permission of instructor.

957L Laboratory in Applied Behavior Analysis (3 hrs) Laboratory work coordinated with Psychology 957L (Applied Behavior Analysis) covering the systematic application of behavioral principles and the use of single-subject experimental designs. Emphasis will be on the modification of behavior of children with cognitive and/or physical disabilities. Prereq: Psychology 957 or permission.

959L Practicum in Applied Behavior Analysis (3) A course dealing with tests and techniques for evaluation of personality characteristics and intended for advanced graduate students in psychology who are enrolled in a program of studies leading to certification as applied behavior analysts. Prereq: An introductory course in group testing: psychology 213 or equivalent, and permission.

997 Practicum in School Psychology (1-6) Faculty-supervised experience in an educational agency designed to acquaint the student with the practical problems faced by psychologists. Prereq: Admission to school psychology program and written permission of department.

Public Administration


441/441M Public Personnel Management (3) A study of the personnel process in American government administration. The processes and problems of recruiting, structuring, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance. Prereq: For 440, P.A. 317, junior standing. For 441M, P.A. 317.

443/443M Municipal Administration (3) The administrative structure and current practices of American cities covering such areas as finances, personnel, public works, safety, health, utilities, and planning. Prereq: For 443, Pol Sci 301, junior standing. For 443M, Pol Sci 301.

800V Seminar in The Research Methods of Political Science and Public Administration (3) A critical investigation of the methods of selecting research problems and of collection and analysis of data in political science, public administration, and related fields. Prereq: For 200, P.A. 317.

800V Seminar in The Research Methods of Political Science and Public Administration (3) A critical investigation of the methods of selecting research problems and of collection and analysis of data in political science, public administration, and related fields. Prereq: For 200, P.A. 317.

1200V Survey of Political Science and Public Administration (3) A study of the foundations of the field of political science and of the major problems of public administration. Prereq: Junior standing.


800V Seminar in The Research Methods of Political Science and Public Administration (3) A critical investigation of the methods of selecting research problems and of collection and analysis of data in political science, public administration, and related fields. Prereq: For 200, P.A. 317.

800V Seminar in The Research Methods of Political Science and Public Administration (3) A critical investigation of the methods of selecting research problems and of collection and analysis of data in political science, public administration, and related fields. Prereq: For 200, P.A. 317.
I. Scheduling problems in the completion of his Specially planned readings in public administration and Development (3) An overview of the pres- ence of legal processes in government for the graduate student who encounters with special emphasis on structure of planning upon special needs of graduate students in service practitioners in the practice of organization a dissertation of faculty adviser.

487 Seminar in Public Personnel Administration (3) This course focuses on the principal consideration affecting the selection and utilization of personnel by government agencies. The emphasis is in terms of description of proc- esses in terms of identification and utilization solutions to problems. Prereq: Permission of graduate adviser.

488 Seminar in Public Financial Administration (3) Financial organization, intergovern- mental fiscal relations, and the administrative ‐ the major role in the allocation and use of resources in public agencies. The course includes problem analysis, study of improved methods and measures of impact. Prereq: Permission of graduate adviser.

282/828 Seminar in The Adolescent (3) This course is designed to assist library media specialists, English teachers, teachers of the hu- manities and other classroom teachers to gain information about teens, their goals and viewing habits and interests. Factors which affect behavior, guidance in reading, an- d the use of literature, regardless of format, will be examined. Cross-listed with: Prereq: For 828LM. Educational Foundations 205 or Educational Foundations 207 and Psychology 351 and graduate standing required.

485/885M Coordination Techniques in Vocational Education (3) A study of the coordination of public and private programs, and the techniques and procedures used in classroom and instruction to achieve these goals. Techniques of instruction and purposes of instruction; emphasis is placed on the content and instructional processes used in the classroom. Prereq: Graduate standing.

486 Seminar in Metropolitan Planning and Development (3) An overview of the pres- ence of planning problems within the public character of local government administrative body of city and county. Emphasis will be placed on general principles of identifying and managing solutions to problems. Prereq: Permission of graduate adviser.

487 Seminar in Public Administration (1-3) A seminar on topics selected based upon current developments in public administration and on the status and function of public administration. Prereq: Graduate standing, permission of instructor, prior course work, or significant experience in the topi- cal area.

490 Research in Public Administration (1-3) Directed study of current problems in public administration. (1-3) In special topics of current interest. Prereq: Permission of graduate adviser.

584V Research in Public Administration (1-3) The course is intended for graduate students in public administration. It is especially suited for those in‐caring students who have experience in the study of public admin-istration rather than in terms of identifying and exploring considera- tion affecting the selection and utilization of graduate adviser.

280V Research Project (1-3) Individual or group study and analysis of specific problems in school administration may include surveys, student behavior, school finances, transportation, school building construction, and special problems in areas of planning and operation, curricul-um and pupil personnel. Prereq: Permission of graduate adviser.

585V Practicum Teaching-Community and Junior College? This course is intended for graduate students who are desirous of working with experienced faculty members in the community or junior college level. The eligible student will be placed in a practicum situation at a school for half a day each week with an experienced faculty member from the College of Education in association with the appropriate community or junior college faculty.

586V Seminar for Cooperative Teachers (3) A seminar for collaborative and prospective coop- erating teachers. Discussion of problems, techniques, and structures that teachers and student aides in the secondary school encounter as problems and the classroom and school experiences available to pre-service students. Prereq: Permission of graduate adviser.

587V Seminar in Educational Administration (3) In- terest centered on the development of secondary education. Critical analysis of current research and related literatures; group and individual work on problems of interest and relevance to secondary education.

587V International Curriculum Practices (3) An analysis of curriculum practices and procedures in schools of the world that have been selected in countries around the world. Units of study will include Belgium, France, Germany, England, and Japan as well as opportunities for the development of criteria for the evaluation of materials from recent curriculum projects. Prereq: 15 hours graduate work in public administration and permission of faculty adviser.

587V Seminar in Educational Administration (3) A study of the basic philosophy underlying educational systems and practice of secondary education and the various fields of study. Prereq: Permission of graduate adviser.

587V Seminar in Educational Administration (3) The practicum experience is designed especially for graduate students who wish to become better informed about the methods of curricular development and of measuring the impact. Prereq: Graduate standing and permission of instructor.

587V Seminar in Educational Administration (3) Designed especially for graduate students in education who wish to become better informed about the methods of curricular development and of measuring the impact. Prereq: Graduate standing and permission of instructor.

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ods, materials, philosophy, and emphasis in instruction which are characteristic of these programs. 

85V Science Education Seminar (3) A graduate seminar in the theory of science education emphasizing research, newly developed science curricula and classroom planning, testing, evaluation and treatment of one or more selected science education topics.

86A Teach and Teach Assessment Strategies in Social Work Education (3) This course is designed for the graduate student in social work whose professional emphasis is in the area of science education. Its focus will be K-12 and as such is meant to serve graduates in both elementary and secondary education departments. The course will describe and analyze trends in the science education including curricula, teaching-learning strategies, assessment, laboratory, and instructional materials. Particular strategies that have merit and relevance concerning today's students and tomorrow's science education will be examined. 

87V Improvement of Instruction in Vocational Business Education (3) A graduate seminar in business education to provide information, methods, and techniques relative to current practices and trends in vocational business education.

70V Problems of Vocational Business Education (3) A graduate seminar for teachers of business education to develop a better understanding of the problems of business education, current practices and trends in business education.

77V Vocational Curriculum Construction (3) A graduate seminar for teachers, supervisors, coordinators, and administrators of vocational education. The course includes principles, needs, factors, and trends that should be considered in developing a vocational education curriculum.

89T The Bachelor of Old Age: A Study of the Problematik of Elderly (3) This is a seminar required of all students majoring in Master of Arts degree, see major adviser for information.

93S Seminar in Applications of Non-Verbal Communication Theory (3) Theories and research in non-verbal communication, observation, encoding, decoding, barriers of non-verbal communication. Application of non-verbal communication to specific applications to education, business, supervision, counseling, therapy and interpersonal speech communication. Cross listed as Psychology 396 and Comm. 555.) Prereq: Course in research methods or permission of instructor.

Social Work 

Foundation Courses 

819 Social Work and the Social Environment (4) A foundation course providing basic knowledge of the contributions of the biological, behavioral, social sciences to understanding of human functioning in transaction with society. Prereq: Admission to graduate program in social work or permission.

820 Social Welfare Policy, Services & Analysis (4) An examination of the policy and planning and the functioning of social delivery systems together with beginning policy analysis embodying socio-economic, political, legal, and psychological contexts. Prereq: Admission to graduate program in social work or permission.

821 Research Methods in Social Work (2) Scientific inquiry, the general types and methods in social research, and the collection, analysis, and presentation of social welfare data. The more commonly used statistical techniques and methods used in social work will be studied and utilized in the preparation of a research project. Prereq: SW 808 or permission.

822 Social Work Practice I (Generic) (2) This course is designed to provide the graduate student with an understanding of the common core of concepts, skills, tasks and roles in social work practice and as a foundation for further professional practice. Prereq: SW 800; concurrent with SW 800; or permission.

823 Social Work Practice II (Micro) (2) An advanced course in providing services to graduate students focusing on basic theory and principles of social work practice with individuals and small groups. Prereq: SW 800; SW 810; concurrent with SW 800; or permission.

824 Social Work Practice III (Macro) (2) This is an introductory course for graduate social work students who surveys basic theories and principles of social work organization, institutions and communities, and in social action. The course will consider the interaction of community development, community organization, administration, social policy and planning. Prereq: SW 800; SW 810; SW 805; concurrent with SW 800, SW 805; or permission.

825 The Family as the Client (3) A study of the family and the role of the family in society with emphasis on the family as an interaction system. Prereq: SW 812 or SW 814; SW 817; or permission.

826 Gestalt-Transactional Analysis (3) An examination of social work practice and the interpersonal concept designed to give students in-depth knowledge and practical experience of the Gestalt and Transactional Analysis (TA) and Gestalt therapy. Prereq: SW 820 or permission.

827V Social Welfare and Institutional Racism (3) An examination of the social policies and programs of social welfare agencies of varying sizes. Prereq: SW 814 and SW 817; undergraduate equivalent; or permission.

830B Social Welfare Administration (3) A study of the field of social work administration in the public and private sector. Prereq: SW 805 or permission.

841 Advanced Social Work Practicum (1-4) To provide advanced practice opportunities for graduate students in the combined use of transactional analysis (TA) and Gestalt therapy. Prereq: SW 820 or permission.

845 Advanced Policy Implementation (3) An advanced course designed to provide an understanding of the legal aspects of selected social work practice. Prereq: SW 814; or permission.

850 Task Groups in Macro Practice (3) A study of the use of group dynamics in social work practice. Prereq: SW 812; or permission.

851 Micro Intervention (3) To provide the student with knowledge of theories and practice in techniques in various modalities which are used in working with individuals, families and small groups. Prereq: BA, Social Work major; concurrent with SW 812; or permission.

852 Theories and Techniques of Social Work (3) To provide the student with knowledge of theories and practice in techniques in various modalities used in the performance of social programs and groups with emphasis on particular settings such as rural mental health clinics, schools, and

856 Supervision in Social Work (3) To provide the student with knowledge of theories and practice in techniques used in supervising paid or volunteer staff in social work agencies. Emphasis will be placed on the leadership and helping functions of the supervisor in both educational and administrative roles. Prereq: SW 814; SW 815; or permission. 

857 Industrial and Organizational Behavior (3) An advanced social science course designed to introduce graduate students to methods of research in social work. Prereq: SW 800; SW 810; or permission.

858 Advanced Policy Analysis and Implementation (3) An advanced course in the use of research and policy development and implementation. Prereq: SW 800; SW 810; or permission.

862 Advanced Social Work Practicum (1-4) To provide the graduate social work student with advanced topics and experiences in social work practice. Prereq: SW 814; or permission.

865 Alcohol Abuse: Comprehensive Treatment Programs (3) An examination of the medical processes and procedures related to alcoholism which are common in the social work setting. Special emphasis is given to detection, intervention, social work, alcoholism, and treatment alternatives and resources.

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**885V-886V Interdisciplinary Seminar On The Urban Community (3-6)** An interdisciplinary course on the metropolitan community in which various disciplines are focused. Students participate in a series of seminars concerned with urban problems are put on broad social issues. It is designed to help students become familiar with one in the social sciences plus 6 hours of special seminar courses taken in one of the social sciences.

**882N-885N Seminar in Social and Economic Studies (3-6)** An examination of the theoretical and practical problems connected with economic and social studies, with particular emphasis on the specific problems of the city.

**886V Seminar in Psychology of Religion (2-6)** A seminar dealing with religion and social and cultural change. The theme will vary from time to time in keeping with the interests of the instructor. As seminar topics vary, this course may be repeated in a student's program without implying duplication.

**886V Seminar in Social Organization (3-6)** A seminar course in which students are provided with an opportunity to write and present a paper applicable to a general social science topic under the supervision of an instructor. Students will receive individualized instruction.

**887V Seminar in Sociological Theory (3-6)** A seminar course in which students are provided with an opportunity to write and present a paper applicable to a general social science topic under the supervision of an instructor. Students will receive individualized instruction.

**889V Seminar in Small Group Communication (J. Blackard)** Research and theory in the processes of communication, human interaction, and leadership; research procedures: approaches to teaching the discussion of communication. Prequel: Graduate sociological major for M.S. Degree.

**987N Program in Urban Community (J. Blackard)** Research and theory in the processes of communication, human interaction, and leadership; research procedures: approaches to teaching the discussion of communication. Prequel: Graduate sociological major for M.S. Degree.

**438/438M Teaching of Specific Disorders of Speech and Language in Small Group Communication (3-6)** Continuation of Speech 423 with further concentration in special educational/psychological aspects of students working with severely handicapped students. Prequel: For 435, Special Education M.S.

**435/434M Teaching of Specific Disorders of Speech and Language in Small Group Communication (3-6)** Continuation of Speech 423 with further concentration in special educational/psychological aspects of students working with severely handicapped students. Prequel: For 435, Special Education M.S.

**436/460M Introduction to Mental Retardation (3)** This is a modular competency based course covering background information on the mentally retarded; the history of the field and its contributions; an introduction to the diagnostic techniques and problems and methods of teaching the mentally retarded. Prequel: For 445, junior standing. Special Education 243, 244.

**437/439M Introduction to Mental Retardation (3)** This is a modular competency based course covering background information on the mentally retarded; the history of the field and its contributions; an introduction to the diagnostic techniques and problems and methods of teaching the mentally retarded. Prequel: For 445, junior standing. Special Education 243, 244.

**438/438M Teaching of Specific Disorders of Speech and Language in Small Group Communication (3-6)** Continuation of Speech 423 with further concentration in special educational/psychological aspects of students working with severely handicapped students. Prequel: For 435, Special Education M.S.

**435/434M Teaching of Specific Disorders of Speech and Language in Small Group Communication (3-6)** Continuation of Speech 423 with further concentration in special educational/psychological aspects of students working with severely handicapped students. Prequel: For 435, Special Education M.S.

**436/460M Introduction to Mental Retardation (3)** This is a modular competency based course covering background information on the mentally retarded; the history of the field and its contributions; an introduction to the diagnostic techniques and problems and methods of teaching the mentally retarded. Prequel: For 445, junior standing. Special Education 243, 244.

**437/439M Introduction to Mental Retardation (3)** This is a modular competency based course covering background information on the mentally retarded; the history of the field and its contributions; an introduction to the diagnostic techniques and problems and methods of teaching the mentally retarded. Prequel: For 445, junior standing. Special Education 243, 244.
465/865M Vocational Training for the Mentally Retarded (3) Concerned with the vocational training of the Mentally Retarded from various perspectives. Individual: the community, the school or training center; the employer; and the handicapped individual as he interacts with agencies that deal with vocational training, projects, and students. Prereq: Permission, F, S, Su.


845/855M Introduction to the Physically Handicapped Child (3) This course is designed to introduce the student to the variety of techniques for managing behavior problems associated with physical handicaps. Three major areas will be presented and specific techniques associated with each will be practiced in both the class and in the student's own classroom situation. Application and adaptations of techniques will be accomplished with the help of a cooperating master clinician. Each student will be assigned to students for undergraduate students who are currently enrolled in student teaching and for graduate students who are completing their education in elementary, secondary, or special education programs. Prereq: SPED 411, 811, and 811M. F, S, Su.

845/855M Classroom Techniques for Behavior Control (1) This course will introduce the student to a variety of techniques for managing behavior problems associated with the mentally retarded. Prereq: Permission, F, S, Su.


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Standing.

890U Administration and Supervision of Special Education (3) Major emphasis on the planning, implementing, and evaluating of curricula and instructional programs; (3) consultation, instruction/therapy modification for family use; and (4) professional dealings with families of the handicapped. Prereq: Acceptance to the University of Nebraska at Omaha Special Education Graduate Program.

872U Basic Practicum in Special Education (3) The student will participate in various clinical or classroom situations in the field of special education and supervision. The course is open to all students in all areas of special education. Assignments will be made according to the area of interest of the student. (F,S) Prereq: Master's degree and acceptance in the ed spec program.

872V Basic Observation and Student Teaching in Special Education (3 or 5) Classroom experiences with exceptional children for graduate students who have had other professional experiences. Students will participate in observation, participation, teaching, and a weekly seminar. (F,S,Su) Prereq: 872U.

875V Basic Diagnosis of Learning Deficits (3) The purpose of the course is to acquaint the student with theoretical and observational experiences in assessment of children with learning and/or behavioral deficits. Significant aspects of evaluation and remediation will be covered. The student will develop skills of observing, recording, and evaluating child's behavior in the classroom; to attain knowledge of theory, standardized and nonstandardized tests of normative comparative results; and to develop and utilize criteria for evaluating test results. Prereq: 897V. (F,S,Su) Prereq: Master's degree.

912 Problems of Reading--Elementary (3) Participating in the reading program for graduate and postgraduate students relating to in-depth studies of significant and recent research in reading with appropriate application of instructional procedures which may be undertaken. Each student will conduct self-initiated research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent). FED 801 (or equivalent), and permission.

918 Seminar in Reading in Research (3) A course for graduate and postgraduate students relating to in-depth studies of significant and recent research in reading with appropriate application of instructional procedures which may be undertaken. Each student will conduct self-initiated research and report the results of the activity to other class members for comment and evaluation. Prereq: One graduate reading course (or equivalent). FED 801 (or equivalent), and permission.

919 Topical Seminar in Reading (3) Participation is limited to graduate students who have completed the Master's Degree in Education and have had at least nine semester graduate hours in reading, and who are professionals working in the field of reading education. The major emphasis of the course will be that of orienting and appraising students of the latest theories and practices in reading. The student should be familiar with catalogues of courses that will be described when the course is offered. The general topic selected will be announced each time the course is offered. The course may be repeated each time a different topic is covered, up to a maximum total of six credit hours. Prereq: Master's Degree in Education. Prereq: 918 or 919 (or equivalent) and at least nine semester graduate hours in Reading.

Technical Institute

Industrial Technology

421/821M Contemporary Trends in Industrial Education For The World of Manufacturing (3) An interdisciplinary course on the metropolitan community in which urban problems are put in a broad interrelated focus. (Also listed under economics, geography, political science, and sociology.)
Faculty and Administration
KENNETH BERRY ................................. Psychology  
Ph.D., Texas Christian University, 1964; Associate Professor of Medical Psychology  
KAREN S. BUDD ................................. Psychology  
Ph.D., University of Kansas, 1975; Assistant Professor  
ROBERT J. ELLINGSON (GF)................. Psychology  
Ph.D., Northwestern University, 1950; M.D., University of Nebraska-Lincoln, 1963; Professor  
ALAN J. FIX ................................. Psychology  
Ph.D., SUNY at Buffalo, 1969; Assistant Professor  
CHARLES GOLDEN (GF)........................ Psychology  
Ph.D., University of Hawaii, 1975; Assistant Professor  
J. MICHAEL LEIBOWITZ (GF).............. Psychology  
Ph.D., University of Maryland, 1974; Associate Professor  
CORNELIA ROBINSON .......................... Psychology  
Ph.D., George Peabody College for Teachers, 1972; Associate Professor  
JACK A. STARK ................................. Psychology  
Ph.D., University of Nebraska, 1973; Assistant Professor  
FRED STRIDER (GF)............................ Psychology  
Ph.D., University of Nebraska-Lincoln, 1964; Associate Professor  
WILLIAM D. WOOD ............................ Psychology  
Ph.D., University of North Carolina, 1967; Assistant Professor  

Administrative Staff

Robert L. Ackerman ............................ Chairperson, Elementary and Early Childhood Education  
David M. Ambrose ............................ Chairperson, Nebraska Business Development Center  
Aaron Arnfield ............................... Chairperson, Special Education  
Clyde Bassett ................................. Chairperson, Dramatic Arts  
Otto F. Bauer ................................. Vice Chancellor for Academic Affairs  
Ronald S. Beer ................................. Chairperson, Educational and Student Services  
Joseph V. Benak ............................... Chairperson, Civil Engineering  
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Frank S. Forbes .............................. Chairperson, Law & Society  
Margaret Gesman ............................ Chairperson, Mathematics & Computer Science  
Thomas Goutierre ............................ Director, International Studies & Programs  
Donald R. Hakala ............................ Chairperson, Banking and Finance  
Alan S. Hackel ............................... Dean, College of Continuing Studies  
Mary R. Hall ................................. Assoc. Dean, College of Arts & Sciences  
Gordon D. Hansen ............................ Asst. Dean, College of Arts & Sciences  
Roger Hayen ................................. Chairperson, Decision Sciences  
Charles Hein ................................. Exec. Asst. to the Chancellor & Director of University Relations  
Shelton Hendricks ............................ Chairperson, Psychology  
Elaine Hest ................................. Associate Chairperson for Academic Affairs  
Jack Hill ........................................... Chairperson, General Business  
David W. Hinton ............................ Acting Dean, College of Public Affairs & Community Service  
Roger Hoburg ............................... Chairperson, Chemistry  
William Honek ............................... Chairperson, Economics  
David E. Kapel ............................... Acting Dean, College of Education  
Darrell F. Kellams ........................... Chairperson, Educational Administration  
John E. Kerrigan ............................. Dean, College of Public Affairs & Community Service  
Kent Kirwan ................................. Chairperson, Political Science  
Julie LaFontant .............................. Chairperson, Black Studies  
Donald E. Leahy ............................. Chairperson, Intercollegiate Athletics  
Jim Leslie ................................. Alumni Association  
W. Boyd Littrell ............................ Chairperson, Sociology  
JoAnne Lofson .............................. Acting Director, Athletics  
James Maynard ............................... Chairperson, Institutional Research  
Kenneth G. Merker .......................... Chairperson, Industrial Systems Tech.  
John A. Moore ............................... Asst. Vice Chancellor for Business & Director of Finance  
Woodrow Most ............................... Chairperson, Foreign Languages  
John Newton ................................. Chairperson, College of Arts and Sciences  
Donald Nicken ............................... Chairperson, Real Estate  
Tom Norwood ............................... Asst. Dean, College of Education
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